

STIC-Biotech/ChemLib

100839

sm

From: Spector, Lorraine
Sent: Monday, August 11, 2003 1:39 PM
To: STIC-Biotech/ChemLib
Subject: SEARCH request for Serial No. 09/938418

CRSE

STIC,

Please search SEQ ID NO: 2 (nucleic acid) and 7 (protein). For the protein, please ALSO do a word search with word size of 6 amino acids.

-pending
-issued
-commercial

Thanks.

Lorraine Spector
703-308-1793
U.S. Patent and Trademark Office
Art Unit 1647
lorraine.spector@uspto.gov
CM1-10B11
Mailbox 10-B19

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AUG 11 2003
(S/IC)

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: 8/13
Date Completed: 8/21
Searcher Prep/Review: SS
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: _____
WWW/Internet: _____
Other (specify): _____

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STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 100839

TO: Lorraine Spector
Location: cm-1/10b19
Art Unit: 1647
Thursday, August 21, 2003
Case Serial Number: 09938418

From: Paul Schulwitz
Location: Biotech-Chem Library
CM1-6B06
Phone: 305-1954

paul.schulwitz@uspto.gov

Search Notes

Examiner Spector,

See attached results.

If you have any questions about this search feel free to contact me at any time.

Thank you for using STIC search services!

Paul Schulwitz
Technical Information Specialist
STIC Biotech/Chem Library
(703)305-1954



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GenCore version 5.1.6
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OM protein - protein search, using SW model

Run on: August 13, 2003, 13:25:12 ; Search time 373 Seconds

(without alignments)
567,016 Million cell updates/sec

Title: US-09-938-418-7

Perfect score: 1301
Sequence: 1 MKRQGPAPSPQRLKLLLL.....GDASTGWSVSRILIELPR 243Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 5580241 seqs, 870357830 residues

Total number of hits satisfying chosen parameters: 5580241

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

Pending_Patents_AA_Main:*

1: /cgn2_6/ptodata/1/paa/PCTUS.COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1301	100.0	243	1	PCT-US02-02781-4559
2	1301	100.0	243	1	PCT-US02-12378-514

3	243	1301	100.0	243	23	US-09-834-759-514	Sequence 514, App
4	243	1301	100.0	243	24	US-09-938-418-7	Sequence 7, Appl
5	243	1301	100.0	243	24	US-09-946-374-352	Sequence 352, App
6	243	1301	100.0	243	24	US-09-946-374-431	Sequence 431, App
7	243	1301	100.0	243	26	US-10-006-041A-352	Sequence 352, App
8	243	1301	100.0	243	26	US-10-006-041A-431	Sequence 431, App
9	243	1301	100.0	243	26	US-10-006-063A-352	Sequence 352, App
10	243	1301	100.0	243	26	US-10-006-063A-431	Sequence 431, App
11	243	1301	100.0	243	26	US-10-006-116A-352	Sequence 352, App
12	243	1301	100.0	243	26	US-10-006-116A-431	Sequence 431, App
13	243	1301	100.0	243	26	US-10-006-117A-352	Sequence 352, App
14	243	1301	100.0	243	26	US-10-006-117A-431	Sequence 431, App
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16	243	1301	100.0	243	26	US-10-006-130A-431	Sequence 431, App
17	243	1301	100.0	243	26	US-10-006-172A-352	Sequence 352, App
18	243	1301	100.0	243	26	US-10-006-172A-431	Sequence 431, App
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22	243	1301	100.0	243	26	US-10-006-746A-431	Sequence 431, App
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25	243	1301	100.0	243	26	US-10-006-818A-352	Sequence 352, App
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30	243	1301	100.0	243	26	US-10-007-194A-352	Sequence 352, App
31	243	1301	100.0	243	26	US-10-007-194A-431	Sequence 431, App
32	243	1301	100.0	243	26	US-10-007-236A-352	Sequence 352, App
33	243	1301	100.0	243	26	US-10-007-236A-431	Sequence 431, App
34	243	1301	100.0	243	26	US-10-007-805-514	Sequence 514, App
35	243	1301	100.0	243	26	US-10-011-671A-352	Sequence 352, App
36	243	1301	100.0	243	26	US-10-011-671A-431	Sequence 431, App
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38	243	1301	100.0	243	26	US-10-011-692A-431	Sequence 431, App
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41	243	1301	100.0	243	26	US-10-011-795B-352	Sequence 352, App
42	243	1301	100.0	243	26	US-10-011-795B-431	Sequence 431, App
43	243	1301	100.0	243	26	US-10-011-833A-352	Sequence 352, App
44	243	1301	100.0	243	26	US-10-011-833A-431	Sequence 431, App
45	243	1301	100.0	243	26	US-10-012-064A-352	Sequence 352, App

ALIGNMENTS

RESULT 1
PCT-US02-02781-4559
Sequence 4559, Application PC/TUS0202781
GENERAL INFORMATION:
APPLICANT: Corixa Corporation
APPLICANT: Benson, Darin R.
APPLICANT: Katos, Michael J.
APPLICANT: Lodes, Michael J.
APPLICANT: Persing, David H.
APPLICANT: Hepler, William T.
APPLICANT: Jiang, Yugu
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF PANCREATIC CANCER
FILE REFERENCE: 210121.566PC
CURRENT APPLICATION NUMBER: PCT/US02/02781
CURRENT FILING DATE: 2002-01-30
NUMBER OF SEQ ID NOS: 4560
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4559
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
PCT-US02-02781-4559
Query Match 100.0%; Score 1301; DB 1; Length 243;

Best Local Similarity 100.0%; Pred. No. 1.6e-118;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRPOGPASPORTLRGLLLLLLLQLPAPSSASEIPKQKAOLOREVVLDYNGMCLQSPA 60
QY 61 GVPGRDGSFGANVIGTGTGIPGRDGFKEGKEGCLRESEESWTPTYKOCSSSLNYGIDL 120
DB 61 GVPGRDGSFGANVIGTGTGIPGRDGFKEGKEGCLRESEESWTPTYKOCSSSLNYGIDL 120
QY 121 GRIACCTFTKMSNSALRVLFSGSLRLKCRNACCORWFTFTFGACSGPLPTEAITIIDQ 180
DB 121 GRIACCTFTKMSNSALRVLFSGSLRLKCRNACCORWFTFTFGACSGPLPTEAITIIDQ 180
QY 181 GSPEKNSITINHRTSSVGLCEGIGAGLVDAIWWGTCSDYPKGDASTGMNSVSRITIEE 240
DB 181 GSPEKNSITINHRTSSVGLCEGIGAGLVDAIWWGTCSDYPKGDASTGMNSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 2

PCT-US02-12378-514
Sequence 514, Application PC/TUS0212378

GENERAL INFORMATION:
APPLICANT: Houghton, Raymond L.
APPLICANT: Sleath, Paul R.
APPLICANT: Persing, David H.
APPLICANT: Jiang, Yugu
APPLICANT: Dillon, Devin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jianshun
APPLICANT: Harlocker, Susan L.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Fanger, Gary R.
APPLICANT: Vedic, Thomas S.
APPLICANT: McNeill, Patricia D.
APPLICANT: Durham, Margarita
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.47003BC
CURRENT APPLICATION NUMBER: PCT/US02/12378
CURRENT FILING DATE: 2002-04-15
NUMBER OF SEQ ID NOS: 627
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 514
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
PCT-US02-12378-514

Query Match 100.0%; Score 1301; DB 1; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.6e-118;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPOGPASPORTLRGLLLLLLLQLPAPSSASEIPKQKAOLOREVVLDYNGMCLQSPA 60
DB 1 MRPOGPASPORTLRGLLLLLLLQLPAPSSASEIPKQKAOLOREVVLDYNGMCLQSPA 60
QY 61 GVPGRDGSFGANVIGTGTGIPGRDGFKEGKEGCLRESEESWTPTYKOCSSSLNYGIDL 120
DB 61 GVPGRDGSFGANVIGTGTGIPGRDGFKEGKEGCLRESEESWTPTYKOCSSSLNYGIDL 120
QY 121 GRIACCTFTKMSNSALRVLFSGSLRLKCRNACCORWFTFTFGACSGPLPTEAITIIDQ 180
DB 121 GRIACCTFTKMSNSALRVLFSGSLRLKCRNACCORWFTFTFGACSGPLPTEAITIIDQ 180
QY 181 GSPEKNSITINHRTSSVGLCEGIGAGLVDAIWWGTCSDYPKGDASTGMNSVSRITIEE 240
DB 181 GSPEKNSITINHRTSSVGLCEGIGAGLVDAIWWGTCSDYPKGDASTGMNSVSRITIEE 240

DB 181 GSPEKNSITINHRTSSVGLCEGIGAGLVDAIWWGTCSDYPKGDASTGMNSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 3

US-09-834-759-514
Sequence 514, Application US/09834759

GENERAL INFORMATION:
APPLICANT: Jiang, Yugu
APPLICANT: Dillon, Devin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jianshun
APPLICANT: Harlocker, Susan L.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C9
CURRENT APPLICATION NUMBER: US/09/834,759
CURRENT FILING DATE: 2001-04-13
NUMBER OF SEQ ID NOS: 547
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 514
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
US-09-834-759-514

Query Match 100.0%; Score 1301; DB 23; Length 243;
Best Local Similarity 100.0%; Pred. No. 1.6e-118;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRPOGPASPORTLRGLLLLLLLQLPAPSSASEIPKQKAOLOREVVLDYNGMCLQSPA 60
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DB 61 GVPGRDGSFGANVIGTGTGIPGRDGFKEGKEGCLRESEESWTPTYKOCSSSLNYGIDL 120
QY 121 GRIACCTFTKMSNSALRVLFSGSLRLKCRNACCORWFTFTFGACSGPLPTEAITIIDQ 180
DB 121 GRIACCTFTKMSNSALRVLFSGSLRLKCRNACCORWFTFTFGACSGPLPTEAITIIDQ 180
QY 181 GSPEKNSITINHRTSSVGLCEGIGAGLVDAIWWGTCSDYPKGDASTGMNSVSRITIEE 240
DB 181 GSPEKNSITINHRTSSVGLCEGIGAGLVDAIWWGTCSDYPKGDASTGMNSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 4

US-09-938-418-7
Sequence 7, Application US/09938418

GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Gurney, Austin L.
APPLICANT: Polakis, Paul
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Wu, Thomas D.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
TITLE OF INVENTION: TREATMENT OF TUMOR
FILE REFERENCE: P5009R1
CURRENT APPLICATION NUMBER: US/09/938,418

Thu Aug 21 11:05:34 2003

us-09-938-418-7.rapm

Page 4

1	PRIOR FILING DATE: 1998-09-15
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56	PRIOR APPLICATION NUMBER: 60/105694
57	PRIOR FILING DATE: 1998-10-26
58	PRIOR APPLICATION NUMBER: 60/105807
59	PRIOR FILING DATE: 1998-10-27

Query Match	100.0%;	Score 1301;	DB 24;	Length 243;
Best Local Similarity	100.0%;	Pred. No. 1.6e-118;		
Matches 243; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

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Db 1 MRPGPAASQRLGLLLLLLLQPAASSAEIEPKGKALRREYVDLNGMCLQSPA 60
QY 61 GVGGRDSSPGANVLPETPGIPGRDGEFGEKCELRSESESWTPNYKCCSSMLTYGIDL 120
Db 61 GVGGRDSSPGANVLPETPGIPGRDGEFGEKCELRSESESWTPNYKCCSSMLTYGIDL 120
QY 121 GKTAECTFEKRSNSATRLVFSGLSLTRKCRACCCORWYFTFNNGAECSPLEIAETIYIDQ 180

DB 121 GKAEFTKMRNSALRVLFSGSLKRCNACCQWYTFNAGCECSGPLFEAITIYDQ 180
 OY 181 GSEPMNSTINHRTSSVEGICGEGAGLVDAIWTGTCSDYPRGDASTGNNSVSRITIEE 240
 DB 181 GSEPMNSTINHRTSSVEGICGEGAGLVDAIWTGTCSDYPRGDASTGNNSVSRITIEE 240
 OY 241 LPR 243
 DB 241 LPR 243
 RESULT 6
 US-09-946-374-431
 ; Sequence 431, Application US/09946374
 ; GENERAL INFORMATION:
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan L.
 ; APPLICANT: Ferrara, Napoleone
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Grimaldi, Paul J.
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paonli, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Smith, Victoria
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Watanabe, Colin K.
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: P2830PICI
 ; CURRENT APPLICATION NUMBER: US/09/946,374
 ; PRIOR FILING DATE: 2001-09-04
 ; PRIOR APPLICATION NUMBER: 60/098716
 ; PRIOR FILING DATE: 1998-09-01
 ; PRIOR APPLICATION NUMBER: 60/098723
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PRIOR APPLICATION NUMBER: 60/102687
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PRIOR FILING DATE: 1998-10-07
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PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105000
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PRIOR APPLICATION NUMBER: 60/105002
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PRIOR APPLICATION NUMBER: 60/105169
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PRIOR APPLICATION NUMBER: 60/105266
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PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105694
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105807
PRIOR FILING DATE: 1998-10-27

Query Match 100.0%; Score 1301; DB 24; Length 243;
Best Local Similarity 100.0%; Pred. No. 1,6e-118;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 MRPGPASPQRRLGLLLLLLPAPSSASEIPKQKQKQALRQREVVDLYNGMCLQCPA 60

|||||
Db 1 MRPGPASPQRRLGLLLLLLPAPSSASEIPKQKQKQALRQREVVDLYNGMCLQCPA 60
QY 61 GVPGRDGPANVIGTPIGRDGFKEGKECECLRESEESWTPNYKCCSSSLNYGIDL 120
|||||
Db 61 GVPGRDGPANVIGTPIGRDGFKEGKECECLRESEESWTPNYKCCSSSLNYGIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCQRMVFTFNGAECGSLPTEAITYLDQ 180
|||||
Db 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCQRMVFTFNGAECGSLPTEAITYLDQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDPKGDASTGMNSVRIITIEE 240
|||||
Db 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDPKGDASTGMNSVRIITIEE 240
QY 241 LPK 243
|||||
Db 241 LPK 243

RESULT 7
US-10-006-041A-352
; Sequence 352, Application US/10006041A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Geo, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C8
; CURRENT APPLICATION NUMBER: US/10/006,041A
; PRIOR FILING DATE: 2001-12-06
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 352
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-006-041A-352

Query Match 100.0%; Score 1301; DB 26; Length 243;
Best Local Similarity 100.0%; Pred. No. 1,6e-118;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPQRRLGLLLLLLPAPSSASEIPKQKQKQALRQREVVDLYNGMCLQCPA 60
|||||
Db 1 MRPGPASPQRRLGLLLLLLPAPSSASEIPKQKQKQALRQREVVDLYNGMCLQCPA 60
QY 61 GVPGRDGPANVIGTPIGRDGFKEGKECECLRESEESWTPNYKCCSSSLNYGIDL 120
|||||
Db 61 GVPGRDGPANVIGTPIGRDGFKEGKECECLRESEESWTPNYKCCSSSLNYGIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCQRMVFTFNGAECGSLPTEAITYLDQ 180
|||||
Db 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCQRMVFTFNGAECGSLPTEAITYLDQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDPKGDASTGMNSVRIITIEE 240
|||||
Db 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDPKGDASTGMNSVRIITIEE 240
QY 241 LPK 243
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;; PRIOR APPLICATION NUMBER: 60/101743
;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/101915
;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/101916
;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/102207
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;; PRIOR APPLICATION NUMBER: 60/102307
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;; PRIOR APPLICATION NUMBER: 60/102330
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;; PRIOR APPLICATION NUMBER: 60/105693
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;; PRIOR FILING DATE: 1998-10-27
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;; PRIOR FILING DATE: 1998-10-27
;; PRIOR APPLICATION NUMBER: 60/106023
;; PRIOR FILING DATE: 1998-10-28
;; PRIOR APPLICATION NUMBER: 60/106029

Query Match 100.0%; Score 1301; DB 26; Length 243;
Best Local Similarity 100.0%; Pred. No. 1,6e-118;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPAASPORLRLGLLLLLDLPASSASEIPKGRKQOLRQREVVDLYNMCLOGPA 60
Dd 1 MRPGPAASPORLRLGLLLLLDLPASSASEIPKGRKQOLRQREVVDLYNMCLOGPA 60
QY 61 GVPGRDGPANVYIPGTGIPGRDGFKEGCECLRESFEESWTPNNYKQCSMSSLNTGIDL 120
Dd 61 GVPGRDGPANVYIPGTGIPGRDGFKEGCECLRESFEESWTPNNYKQCSMSSLNTGIDL 120
QY 121 GKIAECTFTKRSNSALRYLFGSLRLKCNACCQRYFTFNAGCSGPLIEALITYLDQ 180
Dd 121 GKIAECTFTKRSNSALRYLFGSLRLKCNACCQRYFTFNAGCSGPLIEALITYLDQ 180
QY 181 GSPENSTINIHRTSSVEGLCEGIGAGLVVAIWTGCSDPYPKGDASTGNNVSRIITIE 240
Dd 181 GSPENSTINIHRTSSVEGLCEGIGAGLVVAIWTGCSDPYPKGDASTGNNVSRIITIE 240
QY 241 LPK 243
Dd 241 LPK 243

RESULT 12
US-10-006-116A-431
; Sequence 431, Application US/10006116A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Deanoys, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hallan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoul, Nicholas F.
; TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC15
; CURRENT APPLICATION NUMBER: US/10/006,116A
; PRIOR FILING DATE: 2001-12-16
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
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; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/099536
; PRIOR FILING DATE: 1998-09-09

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13	PRIOR APPLICATION NUMBER: 60/0397544
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25	PRIOR APPLICATION NUMBER: 60/1003888
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46	PRIOR FILING DATE: 1998-09-18
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PRIOR APPLICATION NUMBER:	60/102965
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PRIOR APPLICATION NUMBER:	60/103258
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PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105002
PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105104
PRIOR FILING DATE:	1998-10-21

DB 121 GKIACTFTKMRNSALRYLFGSLRLKCRNACCQWYFTFNGAECSGPLPIEATITYLDO 180
QY 181 GSPENKSTINIHRTSSVEGLCEGIGAGLVDAIWMGTCSDYPRKGDASTGWSVSRIITIEE 240
DB 181 GSPENKSTINIHRTSSVEGLCEGIGAGLVDAIWMGTCSDYPRKGDASTGWSVSRIITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 15

US-10-006-130A-352

; Sequence 352, Application US/10006130A

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C7
; CURRENT FILING DATE: 2002-03-19
; PRIOR APPLICATION removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 352
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-006-130A-352

Query Match

100.0%; Score 1301; DB 26; Length 243;

Best Local Similarity 100.0%; Pred. No. 1.6e-118;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPAASPORLRLGILLLLLQLLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
DB 1 MRPGPAASPORLRLGILLLLLQLLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
QY 61 GVPGRDGSPPGANVITGTCIGRQDFKGEKGECLRESFEESWTPNYKQCSWSLNYGIDL 120
DB 61 GVPGRDGSPPGANVITGTCIGRQDFKGEKGECLRESFEESWTPNYKQCSWSLNYGIDL 120
QY 121 GKIACTFTKMRNSALRYLFGSLRLKCRNACCQWYFTFNGAECSGPLPIEATITYLDO 180
DB 121 GKIACTFTKMRNSALRYLFGSLRLKCRNACCQWYFTFNGAECSGPLPIEATITYLDO 180
QY 181 GSPENKSTINIHRTSSVEGLCEGIGAGLVDAIWMGTCSDYPRKGDASTGWSVSRIITIEE 240
DB 181 GSPENKSTINIHRTSSVEGLCEGIGAGLVDAIWMGTCSDYPRKGDASTGWSVSRIITIEE 240
QY 241 LPK 243
DB 241 LPK 243

Search completed: August 13, 2003, 13:35:04
Job time : 375 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:25:42 ; Search time 22 Seconds

(without alignments)
241,089 Million cell updates/sec

Title: US-09-938-418-7

Perfect score: 1301

Sequence: 1 MRQGPAPASQRLRGILL...GDASTGNSVSRITIEELPK 243

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 105250 seqs, 21826969 residues

Total number of hits satisfying chosen parameters: 105250

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Pending Patents AA New: *
1: /cgn2_6/ptodata/2/paa/PC/US02-29560A-203
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pep.*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pep.*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pep.*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pep.*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pep.*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1294	99.5	243	1	PCT-US02-29560A-203
2	122.5	9.4	1737	7	US-60-487-610-1777
3	122.5	9.4	1737	7	US-60-485-450-1149
4	120	9.2	287	6	US-10-450-186-26
5	118.5	9.1	614	7	US-60-487-610-2410
6	118.5	9.1	614	7	US-60-485-450-1524
7	118.5	9.1	1164	7	US-60-487-610-2411
8	118.5	9.1	1164	7	US-60-485-450-1525
9	118.5	9.1	1284	7	US-60-487-610-2407
10	118.5	9.1	1284	7	US-60-485-450-1521
11	118.5	9.1	1464	6	PCT-US02-18638A-36
12	118.5	9.1	1464	6	US-10-291-265-243
13	118.5	9.1	1464	7	US-60-487-610-2409
14	118.5	9.1	1464	7	US-60-485-450-1523
15	118	8.9	832	6	US-10-408-765A-1776
16	116	8.9	1180	7	US-60-487-610-2823
17	116	8.9	1184	7	US-60-487-610-2818
18	116	8.9	1184	7	US-60-487-610-2824
19	116	8.9	1283	7	US-60-487-610-2825
20	116	8.9	1381	7	US-60-487-610-2826
21	116	8.9	1406	7	US-60-487-610-2821
22	116	8.9	1480	7	US-60-487-610-2822
23	116	8.9	1579	7	US-60-487-610-2817
24	116	8.9	1677	7	US-60-487-610-2819
25	116	8.9	1685	7	US-60-487-610-2046
26	116	8.9	1685	7	US-60-487-610-2046

27	115.5	8.9	289	6	US-10-408-765A-1762	Sequence 1762, Ap
28	115.5	8.9	1336	7	US-60-487-610-1544	Sequence 1544, Ap
29	115.5	8.9	1336	7	US-60-485-450-993	Sequence 993, Ap
30	115.5	8.9	1516	7	US-60-487-610-1543	Sequence 1543, Ap
31	115.5	8.9	1516	7	US-60-485-450-992	Sequence 992, Ap
32	115.5	8.9	1669	6	US-10-286-897-5794	Sequence 5794, Ap
33	115.5	8.9	1672	6	US-10-286-897-5794	Sequence 5794, Ap
34	115	8.8	266	1	PCT-US03-21703-44	Sequence 2222, Ap
35	115	8.8	286	1	PCT-US03-21703-46	Sequence 46, Ap
36	114.5	8.8	1356	7	US-60-487-610-1713	Sequence 1713, Ap
37	113.5	8.7	1268	7	US-60-487-610-2047	Sequence 2047, Ap
38	113.5	8.7	1283	7	US-60-487-610-2045	Sequence 2045, Ap
39	113.5	8.7	1669	7	US-60-487-610-1686	Sequence 1686, Ap
40	113	8.7	2629	7	US-60-487-610-2723	Sequence 2723, Ap
41	113	8.7	2944	7	US-60-490-890-372	Sequence 372, Ap
42	112	8.6	245	6	US-60-487-610-2153	Sequence 2153, Ap
43	112	8.6	245	6	US-10-286-897-1997	Sequence 1997, Ap
44	112	8.6	277	6	US-10-286-897-5569	Sequence 5569, Ap
45	112	8.6	392	1	PCT-US03-21703-50	Sequence 50, Ap

ALIGNMENTS

```
RESULT 1
PCT-US02-29560A-203
: Sequence 203, Application PC/TUS0229560A
: GENERAL INFORMATION:
: APPLICANT: Afar, Daniel
: APPLICANT: Aziz, Natasha
: APPLICANT: Gish, Kurt C.
: APPLICANT: Heyezl, Peter A.
: APPLICANT: Mack, David H.
: APPLICANT: Wilson, Keith E.
: APPLICANT: Zlotnik, Albert
: APPLICANT: Eos Biotechnology, Inc.
: TITLE OF INVENTION: Methods of Diagnosis of Cancer, Compositions and
: FILE REFERENCE: 018501-002710PC
: CURRENT APPLICATION NUMBER: PCT/US02/29560A
: CURRENT FILING DATE: 2002-09-17
: PRIOR APPLICATION NUMBER: US 60/323,469
: PRIOR FILING DATE: 2001-09-17
: NUMBER OF SEQ ID NOS: 412
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 203
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo sapiens
PCT-US02-29560A-203
Query Match          99.5%  Score 1294:  DB 1:  Length 243:
Best Local Similarity 99.6%:  Pred. No. 3.1e-124:
Matches 242:  Conservative 0:  Mismatches 1:  Indels 0:  Gaps 0:

QY      1 MRQGPAPASQRLRGILLILQLPAPSSASETPKQKQALRQREYVDLYNCGMLOGPA 60
      |||
Db      1 MRQGPAPASQRLRGILLILQLPAPSSASETPKQKQALRQREYVDLYNCGMLOGPA 60
      |||

QY      61 GVPGRDGPANVIPGTPGIPGRDGFGEKGECLRSFESRWTNPKQCSWSLANTGDL 120
      |||
Db      61 GVPGRDGPANVIPGTPGIPGRDGFGEKGECLRSFESRWTNPKQCSWSLANTGDL 120
      |||

QY      121 GKTAECTFTMRNSALRYVFSLSLRKCNACCQWYFFNKAECSSGPIPIATILYDQ 180
      |||
Db      121 GKTAECTFTMRNSALRYVFSLSLRKCNACCQWYFFNKAECSSGPIPIATILYDQ 180
      |||

QY      181 GSPDMNSTINIHHTSSVEGLCEGIGAGLVDAIHWGNCSDPYPKGDASTGNSVSRITIE 240
      |||
Db      181 GSPDMNSTINIHHTSSVEGLCEGIGAGLVDAIHWGNCSDPYPKGDASTGNSVSRITIE 240
      |||

QY      241 LPK 243
      |||
```

DB 241 LPK 243

RESULT 2
US-60-487-610-1777
; Sequence 1777, Application US/60487610
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: HUANG, Hongjin
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,
; FILE REFERENCE: C1001469
; CURRENT APPLICATION NUMBER: US/60/487, 610
; CURRENT FILING DATE: 2003-07-17
; NUMBER OF SEQ ID NOS: 97101
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1777
; LENGTH: 1737
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-487-610-1777

Query Match 9.4%; Score 122.5; DB 7; Length 1737;
Best Local Similarity 35.0%; Pred. No. 0.00057;
Matches 35; Conservative 8; Mismatches 28; Indels 29; Gaps 4;

QY 20 ILLOLPAPSSASEIPKGRKQAKLRQREVVDLYNGMCLGPGAGVPGRDSPGA---NVIPG 76
DB 1638 ILNQIPSHSSIR-----TVGGPPEPGRPGSPGAPGSGPPG 1675
77 TPGIPGRDGEKGE--CLRESF--EESWTPNYKQCSMS 112
1676 TPGFPGNAGVPGTPEGERKLGPTFGESESAMQPMAPWLSMT 1715

RESULT 3
US-60-485-450-1149
; Sequence 1149, Application US/60485450
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: CHANG, Sheng-Yung
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: RESPONSE TO INTERFERON TREATMENT IN HEPATITIS C
; TITLE OF INVENTION: VIRUS-INFECTED SUBJECTS, METHODS OF DETECTION AND USES
; FILE REFERENCE: C1001470
; CURRENT APPLICATION NUMBER: US/60/485, 450
; CURRENT FILING DATE: 2003-07-09
; NUMBER OF SEQ ID NOS: 47859
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1149
; LENGTH: 1737
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-485-450-1149

Query Match 9.4%; Score 122.5; DB 7; Length 1737;
Best Local Similarity 35.0%; Pred. No. 0.00057;
Matches 35; Conservative 8; Mismatches 28; Indels 29; Gaps 4;

QY 20 ILLOLPAPSSASEIPKGRKQAKLRQREVVDLYNGMCLGPGAGVPGRDSPGA---NVIPG 76
DB 1638 ILNQIPSHSSIR-----TVGGPPEPGRPGSPGAPGSGPPG 1675
77 TPGIPGRDGEKGE--CLRESF--EESWTPNYKQCSMS 112
1676 TPGFPGNAGVPGTPEGERKLGPTFGESESAMQPMAPWLSMT 1715

RESULT 4
US-10-450-186-26
; Sequence 26, Application US/10450186

; GENERAL INFORMATION:
; APPLICANT: INCYTE CORPORATION; GRIFFIN, Jennifer A.;
; APPLICANT: YAO, Monique G.; DUGGAN, Brendan M.;
; APPLICANT: YUE, Henry; DING, Li;
; APPLICANT: LAL, Preeti G.; LEE, Ernestine A.;
; APPLICANT: RAMKUMAR, Jayalakmi; THANGAVELU, Kavitha;
; APPLICANT: XU, Yumlung; LEE, Sally;
; APPLICANT: TANG, Y. Tom; NGUYEN, Daniel B.;
; APPLICANT: WARREN, Bridget A.; HONCHELL, Cynthia D.;
; APPLICANT: GIETZEN, Kimberly J.; BAUGHN, Mariah R.;
; APPLICANT: GANDHI, Ameena R.; ARVIZU, Chandra S.;
; APPLICANT: CHANLA, Narinder K.; LU, Yan;
; APPLICANT: ELIOTY, Vicki S.; LU, Dyung Aina M.;
; APPLICANT: HAFALIA, April J.A.; AZIMZAI, Yalda;
; APPLICANT: KHAN, Farrah A.; TRAN, Uyen K.
; TITLE OF INVENTION: SECRETED PROTEINS
; FILE REFERENCE: PI-0345 USN
; CURRENT APPLICATION NUMBER: US/10/450, 186
; CURRENT FILING DATE: 2003-06-09
; PRIOR APPLICATION NUMBER: PCT/US01/48517
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 60/255, 639
; PRIOR FILING DATE: 2000-12-13
; PRIOR APPLICATION NUMBER: US 60/257, 852
; PRIOR FILING DATE: 2000-12-21
; PRIOR APPLICATION NUMBER: US 60/260, 105
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: US 60/262, 932
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: US 60/263, 096
; PRIOR FILING DATE: 2001-01-18
; PRIOR APPLICATION NUMBER: US 60/263, 090
; PRIOR FILING DATE: 2001-01-19
; PRIOR APPLICATION NUMBER: US 60/265, 926
; PRIOR FILING DATE: 2001-02-02
; NUMBER OF SEQ ID NOS: 108
; SOFTWARE: PERL Program
; SEQ ID NO 26
; LENGTH: 287
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc.feature
; OTHER INFORMATION: Incyte ID No: 7485334CD1
US-10-450-186-26

Query Match 9.2%; Score 120; DB 6; Length 287;
Best Local Similarity 34.7%; Pred. No. 0.0001;
Matches 42; Conservative 10; Mismatches 57; Indels 12; Gaps 4;

QY 27 PSSASEIPKGRKQAKLRQREV--DLVNG---MCLGPGAGVPGRDSPGANVTPGPIG 82
DB 44 PAGAKAPPGPSTAL---EYWDLSANPPPPFPGGKDPGRGKPGPRGPPGPPG 100
QY 83 RDGFGECECLREFEESWTPNYKQCSMSLNTGIDGKTAECTFTMRNSALRVLS 142
DB 101 PRGPPGEKDSGRPL-----PGLQTLTTSAGGVGVSGTGGGDTGGEVTSLSAIFS 155
QY 143 G 143
DB 156 G 156

RESULT 5
US-60-487-610-2410
; Sequence 2410, Application US/60487610
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: HUANG, Hongjin
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,
; FILE REFERENCE: C1001469

```

; CURRENT APPLICATION NUMBER: US/60/487,610
; CURRENT FILING DATE: 2003-07-17
; NUMBER OF SEQ ID NOS: 97101
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2410
; LENGTH: 614
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-487-610-2410

Query Match
Best Local Similarity 36.3%; Score 118.5; DB 7; Length 614;
Pred. No. 0.00038;
Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4;

QY 3 POGPAAS--PQRLGILLILLQLPAPSSASEIPKQKQAKLRQREVVDLYNGMCLGPA 60
DB 357 POGPRGSEGPQGVNG-----EPGPPG---PAG-----AAGPA 385
DB 61 GVPGRDSSPGANVITPGIPGRDGFKEGK 91
DB 386 GNPAGDQPGAKGANGAPGAGPFGARG 416

RESULT 6
US-60-485-450-1524
; Sequence 1524, Application US/60/485/450
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: RESPONSE TO INTERFERON TREATMENT IN HEPATITIS C
; TITLE OF INVENTION: VIRUS-INFECTED SUBJECTS, METHODS OF DETECTION AND USES
; FILE REFERENCE: CLO01470
; CURRENT APPLICATION NUMBER: US/60/485,450
; CURRENT FILING DATE: 2003-07-09
; NUMBER OF SEQ ID NOS: 47859
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1524
; LENGTH: 614
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-485-450-1524

Query Match
Best Local Similarity 36.3%; Score 118.5; DB 7; Length 614;
Pred. No. 0.00038;
Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4;

QY 3 POGPAAS--PQRLGILLILLQLPAPSSASEIPKQKQAKLRQREVVDLYNGMCLGPA 60
DB 357 POGPRGSEGPQGVNG-----EPGPPG---PAG-----AAGPA 385
DB 61 GVPGRDSSPGANVITPGIPGRDGFKEGK 91
DB 386 GNPAGDQPGAKGANGAPGAGPFGARG 416

RESULT 7
US-60-487-610-2411
; Sequence 2411, Application US/60/487/610
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: HUANG, Hongjin
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,
; TITLE OF INVENTION: METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01469
; CURRENT APPLICATION NUMBER: US/60/487,610
; CURRENT FILING DATE: 2003-07-17
; NUMBER OF SEQ ID NOS: 97101
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2411
; LENGTH: 1164

```

```

; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-487-610-2411

Query Match
Best Local Similarity 36.3%; Score 118.5; DB 7; Length 1164;
Pred. No. 0.00087;
Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4;

QY 3 POGPAAS--PQRLGILLILLQLPAPSSASEIPKQKQAKLRQREVVDLYNGMCLGPA 60
DB 57 POGPRGSEGPQGVNG-----EPGPPG---PAG-----AAGPA 85
DB 61 GVPGRDSSPGANVITPGIPGRDGFKEGK 91
DB 86 GNPAGDQPGAKGANGAPGAGPFGARG 116

RESULT 8
US-60-485-450-1525
; Sequence 1525, Application US/60/485/450
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: CHANG, Sheng-yung
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: RESPONSE TO INTERFERON TREATMENT IN HEPATITIS C
; TITLE OF INVENTION: VIRUS-INFECTED SUBJECTS, METHODS OF DETECTION AND USES
; FILE REFERENCE: CLO01470
; CURRENT APPLICATION NUMBER: US/60/485,450
; CURRENT FILING DATE: 2003-07-09
; NUMBER OF SEQ ID NOS: 47859
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1525
; LENGTH: 1164
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-485-450-1525

Query Match
Best Local Similarity 36.3%; Score 118.5; DB 7; Length 1164;
Pred. No. 0.00087;
Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4;

QY 3 POGPAAS--PQRLGILLILLQLPAPSSASEIPKQKQAKLRQREVVDLYNGMCLGPA 60
DB 57 POGPRGSEGPQGVNG-----EPGPPG---PAG-----AAGPA 85
DB 61 GVPGRDSSPGANVITPGIPGRDGFKEGK 91
DB 86 GNPAGDQPGAKGANGAPGAGPFGARG 116

RESULT 9
US-60-487-610-2407
; Sequence 2407, Application US/60/487/610
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: HUANG, Hongjin
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,
; TITLE OF INVENTION: METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01469
; CURRENT APPLICATION NUMBER: US/60/487,610
; CURRENT FILING DATE: 2003-07-17
; NUMBER OF SEQ ID NOS: 97101
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2407
; LENGTH: 1284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-487-610-2407

Query Match
Best Local Similarity 36.3%; Score 118.5; DB 7; Length 1284;
Pred. No. 0.00099;

```

Matches	33; Conservative	2; Mismatches	23; Indels	33; Gaps	4;
OY	3	POGPAAS--PORTKGLITLLTLLLOLPAPASASEIPKGRKQALROREVVLDLNGMCLQSPA	60		
Db	177	POGPRGSGSPGCVGSG-----BRGPRPG-----PAG-----AAGPA	205		
OY	61	GVPRGDSFGPCANVLPCTGPIRGROGFKKKGK	91		
Db	206	GNPGADGCGPGKANGAPGIALGAGCGFPFARG	236		

```

RESULT 10
US-60-485-450-1521
: Sequence 1521, Application US/60485450
: GENERAL INFORMATION:
: APPLICANT: CARGILL, Michele
: APPLICANT: CHANG, Sheng-Yung
: TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
: TITLE OF INVENTION: RESPONSE TO INTERFERON TREATMENT IN HEPATITIS C
: TITLE OF INVENTION: VIRUS-INJECTED SUBJECTS, METHODS OF DETECTION AND USES
: TITLE OF INVENTION: THEREOF
: FILE REFERENCE: CL001470
: CURRENT APPLICATION NUMBER: US/60/485,450
: CURRENT FILING DATE: 2003-07-09
: NUMBER OF SEQ ID NOS: 47859
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 1521
: LENGTH: 1284
: TYPE: PR1
: ORGANISM: Homo sapiens
: US-60-485-450-1521

```

Query Match	9.1%;	Score 118.5;	DB 7;	length 1284;
Best Local Similarity	36.3%;	Pred. No. 0.00099;		
Matches	33;	Conservative	2;	Mismatches 23; Indels 33; Gaps 4;
QY	3	PGCGAAS--PQRLPGLLLLLLLQLPAPSSASBEIPKCKKAKQLRQREVVLDVNGMKLOCPA	60	
Db	177	PGCGRSGEGPGCGVGG-----ERPGPG-----PAG-----AAGPA	205	
QY	61	GVPGRDSSPGCANVLPQIPGIRPGRGFKGKKG	91	
Db	206	GNPGADCGPGKANGANGAGTGAAGCGFPFARG	236	

```

RESULT 11
PCT-US02-18638A-36
; Sequence 36, Application PC/TUS0218638A
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc. et al.
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF CERVICAL CANCER
; FILE REFERENCE: MRI-035PC
; CURRENT APPLICATION NUMBER: PCT/US02/18638A
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US 60/298,159
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,155
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/335,936
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 1464
; TYPE: PRT
; ORGANISM: Homo sapiens
; CTT-US02-18638A-36

```

Query Match	9.1%;	Score 118.5;	DB 1;	Length 1464;
Best Local Similarity	36.3%;	Pred. No. 0.0012;		
Matches	33;	Conservative	2;	Mismatches 23;
				Indels 33;
				Gaps 4

QY 3 PGGPAAAS--PQRIRGILLTLLTLQLPAPSSASSIPKGRKOALROREVDVLTNGMCLOGPA 60
 ||||| :||| |||||
Db 357 PGGPRSEGGPGQVRG-----EPGPpS-----PAG-----AAGPA 365

QY 61 GVPGRDGSFGANVIPTGTPIIGRDFPKFKSG 91 *
 ||| ||||| :||| |||||
Db 386 GNPGLADQGPFQAKGANCAFPISIAAGPPFPCKRG 416

```

RESULT 12
US-10-291-265-243
Sequence 243, Application US/10291265
GENERAL INFORMATION:
APPLICANT: Hyseq, Inc.
TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
FILE REFERENCE: 21272-017 (785)
CURRENT APPLICATION NUMBER: US/10/291,265
CURRENT FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: 09/491,404
PRIOR FILING DATE: 2000-01-25
PRIOR APPLICATION NUMBER: 09/611,746
PRIOR FILING DATE: 2000-07-17
PRIOR APPLICATION NUMBER: 09/631,451
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 09/633,870
PRIOR FILING DATE: 2000-09-15
NUMBER OF SEQ ID NOS: 944
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 243
LENGTH: 1464
TYPE: PRT
ORGANISM: Homo sapiens
US-10-291-265-243

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Query Match	9.1%;	Score 118.5;	DB 6;	length 1464;
Best Local Similarity	36.3%;	Pred. NO. 0.0012;		
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Db	357	PGCRGRSEGGPGQGVNG-----EPGPGG-----PAG-----AAGPA	385	
QY	61	GVPGRDSSPGCANVLPETPGLPGRDGFGEKGG	91	
Db	386	GNPGADQOPGKRGANGAPGINGAGCGFPARG	416	

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RESULT 13
US-60-487-610-2409
: Sequence 2409, Application US/60487610
: GENERAL INFORMATION:
: APPLICANT: CARGILL, Michele
: APPLICANT: HUANG, Hongjin
: TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
: TITLE OF INVENTION: LAYER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS
: TITLE OF INVENTION: METHODS OF DETECTION AND USES THEREOF
: FILE REFERENCE: C1001469
: CURRENT APPLICATION NUMBER: US/60/487,610
: CURRENT FILING DATE: 2003-07-17
: NUMBER OF SEQ ID NOS: 97101
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 2409
: LENGTH: 1464
: TYPE: PR1
: ORGANISM: Homo sapiens
: US-60-487-610-2409

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Query Match	9.1%;	Score 118.5;	DB 7;	Length 1464;
Best Local Similarity	36.3%;	Pred. No. 0.0012;		
Matches 33; Conservative	2;	Mismatches 23;	Indels 33;	Gaps 4;

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 13, 2003, 13:27:27 ; Search time 55 seconds
(without alignments)
578.796 Million cell updates/sec

Title: US-09-938-418-7
Perfect score: 1301
Sequence: 1 MRQGPASPRRLGILLL.....GDASTGWSVSRRIIEELPK 243

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 492763 seqs, 131003257 residues
Total number of hits satisfying chosen parameters: 492763

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: /cgn2_6/ptodata/2/pubppa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/2/pubppa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/2/pubppa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/2/pubppa/US06_PUBCOMB.pep:*
5: /cgn2_6/ptodata/2/pubppa/US07_NEW_PUB.pep:*
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7: /cgn2_6/ptodata/2/pubppa/US08_NEW_PUB.pep:*
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18: /cgn2_6/ptodata/2/pubppa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1301	100.0	243	10 US-09-938-418-7	Sequence 7, Appl
2	1301	100.0	243	11 US-09-946-374-352	Sequence 352, App
3	1301	100.0	243	11 US-09-946-374-431	Sequence 431, App
4	1301	100.0	243	12 US-10-015-387A-352	Sequence 352, App
5	1301	100.0	243	12 US-10-015-387A-431	Sequence 431, App
6	1301	100.0	243	12 US-10-063-735-122	Sequence 122, App
7	1301	100.0	243	12 US-10-063-130A-352	Sequence 352, App
8	1301	100.0	243	12 US-10-063-130A-431	Sequence 431, App
9	1301	100.0	243	12 US-10-199-672-366	Sequence 366, App
10	1301	100.0	243	14 US-10-052-586-366	Sequence 366, App
11	1301	100.0	243	14 US-10-007-805-514	Sequence 514, App
12	1301	100.0	243	14 US-10-063-547-122	Sequence 122, App
13	1301	100.0	243	15 US-10-174-590-366	Sequence 366, App
14	1301	100.0	243	15 US-10-176-758-366	Sequence 366, App
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16	1301	100.0	243	15 US-10-175-737-366	Sequence 366, App
17	1301	100.0	243	15 US-10-063-616-122	Sequence 122, App
18	1301	100.0	243	15 US-10-173-706-366	Sequence 366, App
19	1301	100.0	243	15 US-10-175-738-366	Sequence 366, App
20	1301	100.0	243	15 US-10-175-752-366	Sequence 366, App
21	1301	100.0	243	15 US-10-176-482-366	Sequence 366, App
22	1301	100.0	243	15 US-10-176-757-366	Sequence 366, App
23	1301	100.0	243	15 US-10-180-513-366	Sequence 366, App
24	1301	100.0	243	15 US-10-180-552-366	Sequence 366, App
25	1301	100.0	243	15 US-10-174-572-366	Sequence 366, App
26	1301	100.0	243	15 US-10-076-622-514	Sequence 514, App
27	1301	100.0	243	15 US-10-063-502-122	Sequence 122, App
28	1301	100.0	243	15 US-10-173-700-366	Sequence 366, App
29	1301	100.0	243	15 US-10-174-572-366	Sequence 366, App
30	1301	100.0	243	15 US-10-174-579-366	Sequence 366, App
31	1301	100.0	243	15 US-10-174-582-366	Sequence 366, App
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33	1301	100.0	243	15 US-10-175-739-366	Sequence 366, App
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35	1301	100.0	243	15 US-10-175-743-366	Sequence 366, App
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42	1301	100.0	243	15 US-10-176-992-366	Sequence 366, App
43	1301	100.0	243	15 US-10-176-993-366	Sequence 366, App
44	1301	100.0	243	15 US-10-184-658-366	Sequence 366, App
45	1301	100.0	243	15 US-10-176-991-366	Sequence 366, App

ALIGNMENTS

RESULT 1
US-09-938-418-7
Sequence 7, Application US/09938418
Patent NO. US20020161199A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Gurney, Austin L.
APPLICANT: Williams, P. Mackey
APPLICANT: Wood, William I.
APPLICANT: Wu, Thomas D.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: TREATMENT OF TUMOR
FILE REFERENCE: P50991
CURRENT FILING DATE: 2001-08-23
PRIOR APPLICATION NUMBER: 60/081,071
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: 60/085,697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/097,022
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/101,922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/103,679
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US00/04342

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; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/04341
; PRIOR FILING DATE: 2000-02-18
; PRIOR APPLICATION NUMBER: PCT/US00/05841
; PRIOR FILING DATE: 2000-03-02
; PRIOR APPLICATION NUMBER: PCT/US00/08439
; PRIOR FILING DATE: 2000-03-30
; PRIOR APPLICATION NUMBER: PCT/US00/14042
; PRIOR FILING DATE: 2000-05-22
; PRIOR APPLICATION NUMBER: PCT/US00/23328
; PRIOR FILING DATE: 2000-08-24
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; PRIOR FILING DATE: 2000-12-01
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; PRIOR FILING DATE: 2001-02-28
; PRIOR APPLICATION NUMBER: PCT/US01/17800
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: PCT/US01/19692
; PRIOR FILING DATE: 2001-06-20
; PRIOR APPLICATION NUMBER: PCT/US01/21066
; PRIOR FILING DATE: 2001-06-29
; PRIOR APPLICATION NUMBER: PCT/US01/21735
; PRIOR FILING DATE: 2001-07-09
; NUMBER OF SEQ ID NOS: 10
; SEQ ID NO 7
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-938-418-7

Query Match      100.0%  Score 1301; DB 10; Length 243;
Best Local Similarity 100.0%; Pred. No. 8.7e-121;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 MRPGPASPQRRLRLLLLLLLQLLPAPSSASEIPKQKQKQALOREVVDLYNGMCLQGRA 60
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DB 61 GYRGDGSBGANVIGTGPETGPRDGFKGKGECLRESESESWTPYKQCSWSLNYGIDL 120
QY 121 GRIACFTFKMRSNALSALVLFSSGLRLKRNACCORWYFTFNGACSGPLTEATITIIDQ 180
DB 121 GRIACFTFKMRSNALSALVLFSSGLRLKRNACCORWYFTFNGACSGPLTEATITIIDQ 180
QY 181 GSPEMNSTINIHRTSSVBLCEGLGAGLVDAIIVGTCSDYKPGDASTGWNVSRIITIE 240
DB 181 GSPEMNSTINIHRTSSVBLCEGLGAGLVDAIIVGTCSDYKPGDASTGWNVSRIITIE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 2
US-09-946-374-352
; Sequence 352, Application US/09946374
; Publication No. US20030073129A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fond, Sherman
; APPLICANT: Gao, Wei-Oliang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
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; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C1
; CURRENT FILING DATE: 2001-09-04
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
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;; PRIOR APPLICATION NUMBER: 60/105693
;; PRIOR FILING DATE: 1998-10-26
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;; PRIOR FILING DATE: 1998-10-26
;; PRIOR APPLICATION NUMBER: 60/105807

Query Match 100.0%; Score 1301; DB 11; Length 243;
Best Local Similarity 100.0%; Pred. No. 8, 7e-121;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRQGPASPORLRLGLLLLLLPAPSSASEIPKGRKOKAOLRQREVVLDLYNMCLOGRA 60
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QY 61 GVPGRDGSFGANVYIPGTPIGGRDGRKGRKGECLRESFEESWTPNTKQCSWSSLNTGIDL 120
Db 61 GVPGRDGSFGANVYIPGTPIGGRDGRKGRKGECLRESFEESWTPNTKQCSWSSLNTGIDL 120
QY 121 GRIAECTFKMRNSALRYVFSGLKCKNACCOMYTFNNAECSGPIPIAIIYLDQ 180
Db 121 GRIAECTFKMRNSALRYVFSGLKCKNACCOMYTFNNAECSGPIPIAIIYLDQ 180
QY 181 GSEPMNSTINIHTSSVEGLCEIGALVDVAIWTGTCSDYPGDASTGNSVRIIEE 240
Db 181 GSEPMNSTINIHTSSVEGLCEIGALVDVAIWTGTCSDYPGDASTGNSVRIIEE 240
QY 241 LPR 243
Db 241 LPR 243

RESULT 3
US-09-946-374-431
; Sequence 431, Application US/09946374
; Publication No. US20030073129A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C1
CURRENT APPLICATION NUMBER: US/09/946,374
CURRENT FILING DATE: 2001-09-04
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098723
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PRIOR APPLICATION NUMBER: 60/099816
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100385
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100388
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100390
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100584
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100627
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100661

PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100662
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100664
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100683
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100684
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100710
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100711
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100848
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/100849
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PRIOR APPLICATION NUMBER: 60/100919
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100930
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PRIOR APPLICATION NUMBER: 60/101014
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PRIOR APPLICATION NUMBER: 60/101068
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PRIOR APPLICATION NUMBER: 60/101071
PRIOR FILING DATE: 1998-09-18
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PRIOR APPLICATION NUMBER: 60/101475
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101476
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101477
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101479
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
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PRIOR FILING DATE: 1998-09-24
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PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101915
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/102207
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102240
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102307
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102330
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102331
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102484
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102487
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102570
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102571
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102684
PRIOR FILING DATE: 1998-10-01

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; PRIOR APPLICATION NUMBER: 60/102687
; PRIOR FILING DATE: 1998-10-01
; PRIOR APPLICATION NUMBER: 60/102965
; PRIOR FILING DATE: 1998-10-02
; PRIOR APPLICATION NUMBER: 60/103258
; PRIOR FILING DATE: 1998-10-06
; PRIOR APPLICATION NUMBER: 60/103314
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103315
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103328
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103395
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103396
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103401
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103449
; PRIOR FILING DATE: 1998-10-06
; PRIOR APPLICATION NUMBER: 60/103633
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/103678
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/103679
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/103711
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/104257
; PRIOR FILING DATE: 1998-10-14
; PRIOR APPLICATION NUMBER: 60/104987
; PRIOR FILING DATE: 1998-10-20
; PRIOR APPLICATION NUMBER: 60/105000
; PRIOR FILING DATE: 1998-10-20
; PRIOR APPLICATION NUMBER: 60/105002
; PRIOR FILING DATE: 1998-10-20
; PRIOR APPLICATION NUMBER: 60/105104
; PRIOR FILING DATE: 1998-10-21
; PRIOR APPLICATION NUMBER: 60/105169
; PRIOR FILING DATE: 1998-10-22
; PRIOR APPLICATION NUMBER: 60/105266
; PRIOR FILING DATE: 1998-10-22
; PRIOR APPLICATION NUMBER: 60/105693
; PRIOR FILING DATE: 1998-10-26
; PRIOR APPLICATION NUMBER: 60/105694
; PRIOR FILING DATE: 1998-10-26
; PRIOR APPLICATION NUMBER: 60/105807

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Query Match 100.0%; Score 1301; DB 11; Length 243;

Best Local Similarity 100.0%; Pred. No. 8.7e-121;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MRPGPASPQRRLGLLLLLQLPAPSSASEIPKGRKQKQRLRQREVVDLYNMCLOGPA 60
DB 1 MRPGPASPQRRLGLLLLLQLPAPSSASEIPKGRKQKQRLRQREVVDLYNMCLOGPA 60
QY 61 GVPGRDSSPGANYIPGTGIPGRDGRKGEKGLRSEFESWTPNPKQCSWSSLYNGIDL 120
DB 61 GVPGRDSSPGANYIPGTGIPGRDGRKGEKGLRSEFESWTPNPKQCSWSSLYNGIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSSGLRKCNNACCCQWYFFNGAECGSLPIEAIYYLDQ 180
DB 121 GKIAECTFTKMRNSALRVLFSSGLRKCNNACCCQWYFFNGAECGSLPIEAIYYLDQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIWMGTCSDPKGDASTGWNVSRIITIEE 240
DB 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIWMGTCSDPKGDASTGWNVSRIITIEE 240
QY 241 LPR 243
DB 241 LPR 243

```

```

RESULT 4
US-10-015-387A-352
; Sequence 352, Application US/10015387A
; Publication No. US20030135034A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C54
; CURRENT APPLICATION NUMBER: US/10/015,387A
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 352
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-015-387A-352

```

Query Match 100.0%; Score 1301; DB 12; Length 243;

Best Local Similarity 100.0%; Pred. No. 8.7e-121;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY 1 MRPGPASPQRRLGLLLLLQLPAPSSASEIPKGRKQKQRLRQREVVDLYNMCLOGPA 60
DB 1 MRPGPASPQRRLGLLLLLQLPAPSSASEIPKGRKQKQRLRQREVVDLYNMCLOGPA 60
QY 61 GVPGRDSSPGANYIPGTGIPGRDGRKGEKGLRSEFESWTPNPKQCSWSSLYNGIDL 120
DB 61 GVPGRDSSPGANYIPGTGIPGRDGRKGEKGLRSEFESWTPNPKQCSWSSLYNGIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSSGLRKCNNACCCQWYFFNGAECGSLPIEAIYYLDQ 180
DB 121 GKIAECTFTKMRNSALRVLFSSGLRKCNNACCCQWYFFNGAECGSLPIEAIYYLDQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIWMGTCSDPKGDASTGWNVSRIITIEE 240
DB 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIWMGTCSDPKGDASTGWNVSRIITIEE 240
QY 241 LPR 243
DB 241 LPR 243

```

RESULT 5

```

US-10-015-387A-431
; Sequence 431, Application US/10015387A
; Publication No. US20030135034A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.

```

```

: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: P2830P1C54
: CURRENT APPLICATION NUMBER: US/10/015,387A
: CURRENT FILING DATE: 2001-12-12
: Prior Application removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 477
: SEQ ID NO 431
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo Sapien
: US-10-015-387A-431

```

```

Query Match      100.0%; Score 1301; DB 12; Length 243;
Best Local Similarity 100.0%; Pred. No. 8,7e-121;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 MRPGPASPQRLRGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
DB 1 MRPGPASPQRLRGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
QY 61 GVPGRDSSPGANVLPPTGIPGRGFGKEGECLESEFEESWTPTNYKQCSWSLNTYIDL 120
DB 61 GVPGRDSSPGANVLPPTGIPGRGFGKEGECLESEFEESWTPTNYKQCSWSLNTYIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACQRMWFTFNGAECGSPLEIATYIDLQ 180
DB 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACQRMWFTFNGAECGSPLEIATYIDLQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLYDVAIIVGTCSDYPKGDASTGMNSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLYDVAIIVGTCSDYPKGDASTGMNSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

```

```

RESULT 6
US-10-063-735-122
: Sequence 122, Application US/10063735
: Publication No. US20030138882A1
: GENERAL INFORMATION:
: APPLICANT: Eaton, Dan L.
: APPLICANT: Filvaroff, Ellen
: APPLICANT: Gottisen, Mary E.
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Matanabe, Colin K.
: APPLICANT: Wood, William I.
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: TITLE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P3230R1C1
: CURRENT APPLICATION NUMBER: US/10/063,735
: CURRENT FILING DATE: 2002-05-08
: Prior Application removed - See File Wrapper
: NUMBER OF SEQ ID NOS: 170
: SEQ ID NO 122
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo Sapien
: US-10-063-735-122

```

```

Query Match      100.0%; Score 1301; DB 12; Length 243;
Best Local Similarity 100.0%; Pred. No. 8,7e-121;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGPASPQRLRGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60

```

```

DB 1 MRPGPASPQRLRGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
QY 61 GVPGRDSSPGANVLPPTGIPGRGFGKEGECLESEFEESWTPTNYKQCSWSLNTYIDL 120
DB 61 GVPGRDSSPGANVLPPTGIPGRGFGKEGECLESEFEESWTPTNYKQCSWSLNTYIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACQRMWFTFNGAECGSPLEIATYIDLQ 180
DB 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACQRMWFTFNGAECGSPLEIATYIDLQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLYDVAIIVGTCSDYPKGDASTGMNSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLYDVAIIVGTCSDYPKGDASTGMNSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

```

```

RESULT 7
US-10-006-130A-352
: Sequence 352, Application US/10006130A
: Publication No. US20030148375A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan L.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: TITLE OF INVENTION: Acids Encoding the Same
: FILE REFERENCE: P2830P1C7
: CURRENT APPLICATION NUMBER: US/10/006,130A
: CURRENT FILING DATE: 2002-03-19
: Prior Application removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 477
: SEQ ID NO 352
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-10-006-130A-352

```

```

Query Match      100.0%; Score 1301; DB 12; Length 243;
Best Local Similarity 100.0%; Pred. No. 8,7e-121;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGPASPQRLRGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
DB 1 MRPGPASPQRLRGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
QY 61 GVPGRDSSPGANVLPPTGIPGRGFGKEGECLESEFEESWTPTNYKQCSWSLNTYIDL 120
DB 61 GVPGRDSSPGANVLPPTGIPGRGFGKEGECLESEFEESWTPTNYKQCSWSLNTYIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACQRMWFTFNGAECGSPLEIATYIDLQ 180
DB 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACQRMWFTFNGAECGSPLEIATYIDLQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLYDVAIIVGTCSDYPKGDASTGMNSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLYDVAIIVGTCSDYPKGDASTGMNSVSRITIEE 240
QY 241 LPK 243

```


APPLICANT: Gurney, Austin L.
APPLICANT: Matanabe, Colin K.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/006,867
CURRENT FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 60/063435
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/064215
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088740
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PRIOR APPLICATION NUMBER: 60/088811
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088825
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088863
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090688
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091628
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/096012
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/096757
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: 60/096949
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/096959
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/097954
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/097971
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/097979
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/098749

PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/099741
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099763
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099792
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099815
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100627
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100662
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100683
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100684
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100930
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101279
PRIOR FILING DATE: 1998-09-22
PRIOR APPLICATION NUMBER: 60/101475
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101743
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/102570
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/103449
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103678
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103679
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103711
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/105000
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105002
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105881
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/106030
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/106464
PRIOR FILING DATE: 1998-10-30
PRIOR APPLICATION NUMBER: 60/106856
PRIOR FILING DATE: 1998-11-03
PRIOR APPLICATION NUMBER: 60/108807
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/112419
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/112422
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/112853
PRIOR FILING DATE: 1998-12-16
PRIOR APPLICATION NUMBER: 60/113011
PRIOR FILING DATE: 1998-12-16
PRIOR APPLICATION NUMBER: 60/112854
PRIOR FILING DATE: 1998-12-16
PRIOR APPLICATION NUMBER: 60/113300
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/113408
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/113430
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/113621
PRIOR FILING DATE: 1998-12-23

;; PRIOR APPLICATION NUMBER: 60/114223
;; PRIOR FILING DATE: 1998-12-30
;; PRIOR APPLICATION NUMBER: 60/115614
;; PRIOR FILING DATE: 1999-01-12
;; PRIOR APPLICATION NUMBER: 60/116527
;; PRIOR FILING DATE: 1999-01-20
;; PRIOR APPLICATION NUMBER: 60/116843
;; PRIOR FILING DATE: 1999-01-22
;; PRIOR APPLICATION NUMBER: 60/119285
;; PRIOR FILING DATE: 1999-02-09
;; PRIOR APPLICATION NUMBER: 60/119287
;; PRIOR FILING DATE: 1999-02-09
;; PRIOR APPLICATION NUMBER: 60/119525
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;; PRIOR APPLICATION NUMBER: 60/119549
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;; PRIOR FILING DATE: 1999-04-16
;; PRIOR APPLICATION NUMBER: 60/131291
;; PRIOR FILING DATE: 1999-04-27
;; PRIOR APPLICATION NUMBER: 60/138387
;; PRIOR FILING DATE: 1999-06-09
;; PRIOR APPLICATION NUMBER: 60/144791
;; PRIOR FILING DATE: 1999-07-20
;; PRIOR APPLICATION NUMBER: 60/169495
;; PRIOR FILING DATE: 1999-12-07
;; PRIOR APPLICATION NUMBER: 60/175481
;; PRIOR FILING DATE: 2000-01-11
;; PRIOR APPLICATION NUMBER: 60/191007
;; PRIOR FILING DATE: 2000-03-21
;; PRIOR APPLICATION NUMBER: 60/199397
;; PRIOR FILING DATE: 2000-04-25
;; PRIOR APPLICATION NUMBER: 09/380139
;; PRIOR FILING DATE: 1998-08-25
;; PRIOR APPLICATION NUMBER: 09/311832
;; PRIOR FILING DATE: 1999-05-14
;; PRIOR APPLICATION NUMBER: 09/380137
;; PRIOR FILING DATE: 1999-08-25
;; PRIOR APPLICATION NUMBER: 09/380138
;; PRIOR FILING DATE: 1999-08-25
;; PRIOR APPLICATION NUMBER: 09/380142

Query Match 100.0%; Score 1301; DB 14; Length 243;

Best Local Similarity 100.0%; Pred. No. 8.7e-121; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPQRRLGLLLLLLLLPAPSSASEIPKQKQKQKQREVVDLYNGMCLQGPA 60
DB 1 MRPGPASPQRRLGLLLLLLLLPAPSSASEIPKQKQKQKQREVVDLYNGMCLQGPA 60
QY 61 GVPGRDGPAGANVIGTPGIGRDGFKGKGECLRESFEESWTPNPKQCSMSLNYIDL 120
DB 61 GVPGRDGPAGANVIGTPGIGRDGFKGKGECLRESFEESWTPNPKQCSMSLNYIDL 120
QY 121 GKTAECTFKMRNSALRVFSGSLRKCRRNACCQRRYFFFNACGSGPLPIEAIYLDQ 180
DB 121 GKTAECTFKMRNSALRVFSGSLRKCRRNACCQRRYFFFNACGSGPLPIEAIYLDQ 180
QY 181 GSPENSTINIRHTSSVEGLCEGIGAGLVVAIWTGTCSDYPKGDASTGNNVSRIITEE 240
DB 181 GSPENSTINIRHTSSVEGLCEGIGAGLVVAIWTGTCSDYPKGDASTGNNVSRIITEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 11
US-10-052-586-366

;; Sequence 366, Application US/10052586
;; Publication No. US20020127584A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Chen, Jian
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Pan, James
;; APPLICANT: Smith, Victoria
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zhenlin
;; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P3430R1C1
;; CURRENT APPLICATION NUMBER: US/10/052,586
;; CURRENT FILING DATE: 2002-01-15
;; PRIOR APPLICATION NUMBER: 60/059263
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;; PRIOR APPLICATION NUMBER: 60/059266
;; PRIOR FILING DATE: 1997-09-18
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;; PRIOR FILING DATE: 1997-10-24
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;; PRIOR APPLICATION NUMBER: 60/063486
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RESULT 15

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US-10-176-758-366
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: Publication No. US2003008353A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Chen, Jian
: APPLICANT: Desnoyers, Luc
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Pan, James
: APPLICANT: Smith, Victoria
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: TITLE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P3430R1C104
: CURRENT APPLICATION NUMBER: US/10/176,758
: CURRENT FILING DATE: 2002-06-21
: Prior Application removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 612
: SEQ ID NO 366
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-176-758-366
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Best Local Similarity 100.0%; Pred. No. 8,7e-121; Mismatches 0; Indels 0; Gaps 0;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY      181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWTCSDYPKGDASTGMNSVSRITIEE 240
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Db      241 LPK 243
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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:23:42 ; Search time 29 Seconds

(without alignments)
354.536 Million cell updates/sec

Title: US-09-938-418-7

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Scoring table: BLOSUM62

Gap: 10.0 , Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
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5	270	20.8	51	4	US-09-205-258-963
6	211.5	16.3	52	4	US-09-205-258-960
7	196	15.1	93	4	US-09-489-847-240
8	196	15.1	93	4	US-09-489-847-362
9	122.5	9.4	246	2	US-08-463-811-4
10	118.5	9.1	1057	3	US-08-931-820-1
11	118.5	9.1	1461	4	US-09-585-887-9
12	118.5	9.1	1461	4	US-09-289-578-9
13	115.5	8.9	138	4	US-09-227-357-190
14	115	8.8	623	3	US-09-029-348-3
15	115	8.8	626	3	US-09-029-348-2
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17	111	8.5	245	4	US-09-552-225A-4
18	110.5	8.5	310	3	US-09-219-849-47
19	110.5	8.5	595	3	US-09-219-849-48
20	110.5	8.5	595	3	US-09-219-849-50
21	110.5	8.5	684	1	US-08-555-869-12
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25	110	8.5	1568	3	US-09-458-791-2
26	110	8.5	1568	3	US-09-459-066-2
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28	108.5	8.3	1060	3	US-08-931-820-3	Sequence 3, Appl1
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ALIGNMENTS

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US-09-489-847-205
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: Patent No. 6476195
: GENERAL INFORMATION:
: APPLICANT: Rosen et al
: TITLE OF INVENTION: 98 Human Secreted Proteins
: FILE REFERENCE: P2031P1
: CURRENT APPLICATION NUMBER: US/09/489, 847
: EARLIER FILING DATE: 2000-01-24
: EARLIER APPLICATION NUMBER: PCT/US99/17130
: EARLIER FILING DATE: 1999-07-29
: EARLIER APPLICATION NUMBER: 60/094,657
: EARLIER FILING DATE: 1998-07-30
: EARLIER APPLICATION NUMBER: 60/095,486
: EARLIER FILING DATE: 1998-08-05
: EARLIER APPLICATION NUMBER: 60/096,319
: EARLIER FILING DATE: 1998-08-12
: EARLIER APPLICATION NUMBER: 60/095,454
: EARLIER FILING DATE: 1998-08-06
: EARLIER APPLICATION NUMBER: 60/095,455
: EARLIER FILING DATE: 1998-08-06
: NUMBER OF SEQ ID NOS: 376
: SOFTWARE: PatentIn Ver. 2.0
: SEQ ID NO 205
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-09-489-847-205

Query Match          99.2%  Score 1291;  DB 4;  Length 243;
Best Local Similarity 99.2%  Pred. No. 4e-127;
Matches 241;  Conservative 1;  Mismatches 1;  Gaps 0;
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DB	61	GVPRDPSGANVLPITPGIPGRDGFGECECLRESFESWTPNYKQCSMSLNYCIDL	120
QY	121	GKIAECTFTMRNSALRVLPFSGSLRLKRNACCORNYFTFNGACEGSLPIEATLYLDQ	180
DB	121	GKIAECTFTMRNSALRVLPFSGSLRLKRNACCORNYFTFNGACEGSLPIEATLYLDQ	180
QY	181	GSPEMNSTINIHRTSSVEGLCEGAGLVAVATWGCSPYPRGDASTGMSVSRITIEE	240
DB	181	GSPEMNSTINIHRTSSVEGLCEGAGLVAVATWGCSPYPRGDASTGMSVSRITIEE	240

0Y	241	LPK	243
DB	241	LPK	243
<p>RESULT 2</p> <p>US-09-205-258-958</p> <p>: Sequence 958, Application US/09205258</p> <p>: Patent No. 6525174</p> <p>: GENERAL INFORMATION:</p> <p>: APPLICANT: Young et al.</p> <p>: TITLE OF INVENTION: 207 Human Secreted Proteins</p> <p>: FILE REFERENCE: P2007p1</p> <p>: CURRENT APPLICATION NUMBER: US/09/205,258</p> <p>: CURRENT FILING DATE: 1998-12-04</p> <p>: EARLIER APPLICATION NUMBER: PCT/US98/11422</p> <p>: EARLIER FILING DATE: 1998-06-04</p> <p>: EARLIER APPLICATION NUMBER: 60/048,885</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/049,375</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,881</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,880</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,896</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/049,020</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,876</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,895</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,884</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,894</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,971</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,964</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,882</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,899</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,893</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,900</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,901</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,892</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,915</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/049,019</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,970</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,972</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,916</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/049,373</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,875</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/049,374</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,917</p> <p>: EARLIER FILING DATE: 1997-06-06</p> <p>: EARLIER APPLICATION NUMBER: 60/048,949</p> <p>: EARLIER FILING DATE: 1997-06-06</p>			

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      EARLIER APPLICATION NUMBER: 60/048,974
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      EARLIER APPLICATION NUMBER: 60/048,883
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      EARLIER APPLICATION NUMBER: 60/048,997
      EARLIER FILING DATE: 1997-06-06
      EARLIER APPLICATION NUMBER: 60/048,898
      EARLIER FILING DATE: 1997-06-06
      EARLIER APPLICATION NUMBER: 60/048,962
      EARLIER FILING DATE: 1997-06-06
      EARLIER APPLICATION NUMBER: 60/048,963
      EARLIER FILING DATE: 1997-06-06
      EARLIER APPLICATION NUMBER: 60/048,877
      EARLIER FILING DATE: 1997-06-06
      EARLIER APPLICATION NUMBER: 60/048,878
      EARLIER FILING DATE: 1997-06-06
      EARLIER APPLICATION NUMBER: 60/070,923
      EARLIER FILING DATE: 1997-12-18
      EARLIER APPLICATION NUMBER: 60/092,921
      EARLIER FILING DATE: 1998-07-15
      EARLIER APPLICATION NUMBER: 60/094,657
      EARLIER FILING DATE: 1998-07-30
      NUMBER OF SEQ ID NOS: 1227
      SOFTWARE: PatentIn Ver. 2.0
      SEQ ID NO 958
      LENGTH: 276
      TYPE: PRT
      ORGANISM: Homo sapiens
      FEATURE:
      NAME/KEY: SITE
      LOCATION: (10)
      OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-205-258-958

Query Match          84.6%; Score 1100.5; DB 4; Length 276;
Best Local Similarity 96.7%; Pred. No. 4.2e-107;
Matches 203; Conservative 3; Mismatches 3; Indels 1; Gaps 1

QY      34 PKGKAKLRREVDYLINMCVCGPAGVPGRDGGPGANVIPTGPPIGRDGFKEKGEC 93
       1 : | : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
DB      68 PRG-SKRIRIREVVDLYNMGCLQGPAVGPDGSGPGANGIGTPIGRDGFKEKGEC 126
       |||EEEEETPPYKOCSSSLNYGIDLGKIACFTFKMNSNALRVLPFGSLRLCKRNAC
QY      94 LRSEESWTTPYKOCSSSLNYGIDLGKIACFTFKMNSNALRVLPFGSLRLCKRNAC 153
       |||EEEEETPPYKOCSSSLNYGIDLGKIACFTTKMNSNALRVLPFGSLRLCKRNAC 186
DB      127 LRSEESWTTPYKOCSSSLNYGIDLGKIACFTTKMNSNALRVLPFGSLRLCKRNAC 186
       |||EEEEETPPYKOCSSSLNYGIDLGKIACFTTKMNSNALRVLPFGSLRLCKRNAC
QY      154 CORWTFENGAECSGLPELEAIILYLDQGSPEMNSTINIHRITSVEGLCEGIGAGLVDAI 213
       |||||EEEEETPPYKOCSSSLNYGIDLGKIACFTTKMNSNALRVLPFGSLRLCKRNAC
DB      187 CORWTFENGAECSGLPELEAIILYLDQGSPEMNSTINIHRITSVEGLCEGIGAGLVDAI 246
       |||||EEEEETPPYKOCSSSLNYGIDLGKIACFTTKMNSNALRVLPFGSLRLCKRNAC
QY      214 WGTCTSDYPKGDASTGMNSVSRIITEELPK 243
       |||||EEEEETPPYKOCSSSLNYGIDLGKIACFTTKMNSNALRVLPFGSLRLCKRNAC
DB      247 WGTCTSDYPKGDASTGMNSVSRIITEELPK 276
       |||||EEEEETPPYKOCSSSLNYGIDLGKIACFTTKMNSNALRVLPFGSLRLCKRNAC

RESULT 3
US-09-205-258-962
Sequence 962: Application US/09205258
Patent No. 6523174
GENERAL INFORMATION:
APPLICANT: Young et al.
TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REFERENCE: P2007P1
CURRENT APPLICATION NUMBER: US/09/205,258
CURRENT FILING DATE: 1998-12-04
EARLIER APPLICATION NUMBER: PCT/US98/11422
EARLIER FILING DATE: 1998-06-04
EARLIER APPLICATION NUMBER: 60/048,885
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,375
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,881
EARLIER FILING DATE: 1997-06-06

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EARLIER APPLICATION NUMBER: 60/048,880
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,896
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,020
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,876
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,895
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,884
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,894
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,971
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,964
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,882
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,899
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,893
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,900
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,901
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,892
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,915
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,019
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,970
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,972
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,916
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,373
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,875
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,374
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,917
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,949
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,974
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,883
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EARLIER APPLICATION NUMBER: 60/048,897
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EARLIER APPLICATION NUMBER: 60/048,898
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,962
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,963
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,877
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,878
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/070,923
EARLIER FILING DATE: 1997-12-18
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227

SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 962
LENGTH: 66
TYPE: PRT
ORGANISM: Homo sapiens
US-09-205-258-962
Query Match 27.4%; Score 356; DB 4; Length 66;
Best Local Similarity 100.0%; Pred. No. 4.8e-30;
Matches 66; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 128 FTKRNSALRVLFSSGSLRLKRNACCQRMWTFENGACSGPLIEAIIYIDGSPENMS 187
Db 1 FTKRNSALRVLFSSGSLRLKRNACCQRMWTFENGACSGPLIEAIIYIDGSPENMS 60
OY 188 TINIR 193
Db 61 TINIR 66
RESULT 4
US-09-205-258-961
Sequence 961, Application US/09205258
Patent No. 6523174
GENERAL INFORMATION:
APPLICANT: Young et al.
TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REFERENCE: P2007P1
CURRENT APPLICATION NUMBER: US/09/205,258
CURRENT FILING DATE: 1998-12-04
EARLIER APPLICATION NUMBER: PCT/US98/11422
EARLIER FILING DATE: 1998-06-04
EARLIER APPLICATION NUMBER: 60/048,885
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,375
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,881
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,880
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,896
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,876
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,020
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,876
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,895
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,884
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,894
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,971
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,964
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,882
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,899
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,893
EARLIER FILING DATE: 1997-06-06
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EARLIER APPLICATION NUMBER: 60/048,901
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,892
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,915
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,019
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,970

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;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,972
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,916
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/049,373
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,875
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/049,374
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,917
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,949
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,974
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,883
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;; EARLIER FILING DATE: 1997-06-06
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;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,962
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,963
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,877
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,878
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/070,923
;; EARLIER FILING DATE: 1997-12-18
;; EARLIER APPLICATION NUMBER: 60/092,921
;; EARLIER FILING DATE: 1998-07-15
;; EARLIER APPLICATION NUMBER: 60/094,657
;; EARLIER FILING DATE: 1998-07-30
;; NUMBER OF SEQ ID NOS: 1227
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO: 961
;; LENGTH: 52
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-205-258-961

Query Match      22.8%; Score 296; DB 4; Length 52;
Best Local Similarity 100.0%; Pred. No. 6,56-24;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      77 TPGIRGDFGKGEKCLRESFESESWTPNYKQCSWSLNYGIDGKIACTF 128
DB      1 TPGIRGDFGKGEKCLRESFESESWTPNYKQCSWSLNYGIDGKIACTF 52

RESULT 5
US-09-205-258-963
Sequence 963 Application US/09205258
Patent No. 6525174
GENERAL INFORMATION:
APPLICANT: Young et al.
TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REFERENCE: P2007p1
CURRENT APPLICATION NUMBER: US/09/205,258
CURRENT FILING DATE: 1998-12-04
EARLIER APPLICATION NUMBER: PCT/US98/11422
EARLIER FILING DATE: 1998-06-04
EARLIER APPLICATION NUMBER: 60/048,885
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,375
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,881
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,880
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;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,896
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/049,020
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,876
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,895
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,884
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,894
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,971
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,964
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,882
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;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,900
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,901
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,892
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;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,970
;; EARLIER FILING DATE: 1997-06-06
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;; EARLIER FILING DATE: 1997-06-06
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;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/049,374
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;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,877
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/048,878
;; EARLIER FILING DATE: 1997-06-06
;; EARLIER APPLICATION NUMBER: 60/070,923
;; EARLIER FILING DATE: 1997-12-18
;; EARLIER APPLICATION NUMBER: 60/092,921
;; EARLIER FILING DATE: 1998-07-15
;; EARLIER APPLICATION NUMBER: 60/094,657
;; EARLIER FILING DATE: 1998-07-30
;; NUMBER OF SEQ ID NOS: 1227
;; SOFTWARE: PatentIn Ver. 2.0
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; SEQ ID NO 963
; LENGTH: 51
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-205-258-963

Query Match      20.8%; Score 270; DB 4; Length 51;
Best Local Similarity 100.0%; Pred. No. 3.3e-21;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy      193 RTSSVGLCEGIGAGLVDAIVWTCSDYKGDASTGMSVSRITIEELPK 243
          |||.....|.....|.....|.....|.....|.....|.....|
Db      1 RTSSVGLCEGIGAGLVDAIVWTCSDYKGDASTGMSVSRITIEELPK 51

RESULT 6
; Sequence 960, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/09/205,258
; EARLIER FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
; EARLIER APPLICATION NUMBER: 60/048,885
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,375
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,881
; EARLIER FILING DATE: 1997-06-06
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; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,896
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,020
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,876
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,895
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,884
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,894
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,971
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,964
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; EARLIER APPLICATION NUMBER: 60/048,882
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,899
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; EARLIER FILING DATE: 1997-06-06
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; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,019
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,970
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,972
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,916
; EARLIER FILING DATE: 1997-06-06
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; EARLIER APPLICATION NUMBER: 60/049,373
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,875
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,374
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,917
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,949
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,883
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,897
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,898
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,962
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,963
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,877
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/048,878
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/070,923
; EARLIER FILING DATE: 1997-12-18
; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; NUMBER OF SEQ ID NOS: 1227
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 960
; LENGTH: 52
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-205-258-960

Query Match      16.3%; Score 211.5; DB 4; Length 52;
Best Local Similarity 85.1%; Pred. No. 4.6e-15;
Matches 40; Conservative 3; Mismatches 3; Indels 1; Gaps 1;

Oy      34 PKGKQKQLRQREVVDLYNMCLOGPAGVGRGSGPGANIYPTPGI 80
          | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      7 PRG-SKRRIQREVVDLYNMCLOGPAGVGRGSGPGANIPETPGI 52

RESULT 7
US-09-489-847-240
; Sequence 240, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; EARLIER FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
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;; SEQ ID NO 240
;; LENGTH: 93
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-489-847-240

Query Match 15.1%; Score 196; DB 4; Length 93;
Best Local Similarity 100.0%; Pred. No. 4.3e-13;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPQRRLGLLILLQLPAPSSASEIPKQKA 40
DB 1 MRPGPASPQRRLGLLILLQLPAPSSASEIPKQKA 40

RESULT 8
US-09-489-847-362
; Sequence 362, Application US/09489847
; Patent No. 6476195

;; GENERAL INFORMATION:
;; APPLICANT: Rosen et al
;; TITLE OF INVENTION: 98 Human Secreted Proteins
;; FILE REFERENCE: P2031P1
;; CURRENT APPLICATION NUMBER: US/09/489,847
;; EARLIER FILING DATE: 2000-01-24
;; EARLIER APPLICATION NUMBER: PCT/US99/17130
;; EARLIER FILING DATE: 1999-07-29
;; EARLIER APPLICATION NUMBER: 60/094,657
;; EARLIER FILING DATE: 1998-07-30
;; EARLIER APPLICATION NUMBER: 60/095,486
;; EARLIER FILING DATE: 1998-08-05
;; EARLIER APPLICATION NUMBER: 60/096,319
;; EARLIER FILING DATE: 1998-08-12
;; EARLIER APPLICATION NUMBER: 60/095,454
;; EARLIER FILING DATE: 1998-08-06
;; EARLIER APPLICATION NUMBER: 60/095,455
;; EARLIER FILING DATE: 1998-08-06
;; NUMBER OF SEQ ID NOS: 376
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 362
;; LENGTH: 93
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-09-489-847-362

Query Match 15.1%; Score 196; DB 4; Length 93;
Best Local Similarity 100.0%; Pred. No. 4.3e-13;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPQRRLGLLILLQLPAPSSASEIPKQKA 40
DB 1 MRPGPASPQRRLGLLILLQLPAPSSASEIPKQKA 40

RESULT 9
US-08-463-911-4
; Sequence 4, Application US/08463911
; Patent No. 5869330

;; GENERAL INFORMATION:
;; APPLICANT: Scherer, Philipp E.
;; APPLICANT: Lodish, Harvey F.
;; TITLE OF INVENTION: A NOVEL SERUM PROTEIN PRODUCED
;; TITLE OF INVENTION: EXCLUSIVELY IN ADIPOCYTES
;; NUMBER OF SEQUENCES: 7
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
;; STREET: Two Militia Drive
;; CITY: Lexington
;; STATE: Massachusetts
;; COUNTRY: USA
;; ZIP: 02173
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk

;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/463,911
;; FILING DATE:
;; CLASSIFICATION: 530
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Granahan, Patricia
;; REGISTRATION NUMBER: 32,227
;; REFERENCE/DOCKET NUMBER: WHI95-05
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (617) 861-6240
;; TELEFAX: (617) 861-9540
;; INFORMATION FOR SEQ ID NO: 4:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 246 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: DNA (genomic)
US-08-463-911-4

Query Match 9.4%; Score 122.5; DB 2; Length 246;
Best Local Similarity 37.4%; Pred. No. 8.3e-05;
Matches 34; Conservative 5; Mismatches 33; Indels 19; Gaps 2;

QY 5 GPASPQRRLGLLILLQLPAPSSASEIPKQKAKLRQREVVDLYGMCLOGPAGVG 64
DB 4 GPSCPGCGCLLLILLFLALPLRSAS-----ACGYIPGPMKPCAPG 47

QY 65 RDGS---PGANVIRETPEIGRDRGKGEKE 92
DB 48 KGDHGLQGPKEGPEIPAVPTGPGKQGE 78

RESULT 10
US-08-931-820-1

;; Sequence 1, Application US/08931820
;; Patent No. 6010863
;; GENERAL INFORMATION:
;; APPLICANT:
;; TITLE OF INVENTION: Assay for collagen degradation
;; NUMBER OF SEQUENCES: 4
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/931,820
;; FILING DATE:
;; CLASSIFICATION: 435
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: EP 96202596.1
;; FILING DATE:
;; INFORMATION FOR SEQ ID NO: 1:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 1057 amino acids
;; TYPE: amino acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: protein
;; HYPOTHETICAL: NO
;; ANTI-SENSE: NO
;; ORIGINAL SOURCE:
;; ORGANISM: Homo sapiens
;; TISSUE TYPE: Collagen type I
US-08-931-820-1

Query Match 9.1%; Score 118.5; DB 3; Length 1057;
Best Local Similarity 36.3%; Pred. No. 0.0017;
Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4;

QY	3	PQPAPAS--PQRRLGILLILLILQLPPASSASEIPFGKOKAQLRGEVVDLYNGMCLGPA	60
		: :	
Db	196	PQGPRESSEPGQGVRG-----EPGPpS-----PAG-----MGPA	225
QY	61	GVRGRDGSPPANYPPTPCITPGRDGKRGSKG	91
		:	
Db	225	GNPGADGQQPKAKGANGAPGTIAGAPGPPGARG	255

RESULT 11
US-09-585-887-9

```

Sequence 9 Application US/0958588/7
Patent No. 6413742
GENERAL INFORMATION:
APPLICANT: Olsen, David R
APPLICANT: Chang, Robert
APPLICANT: McNeill, Hugh
APPLICANT: Hitzeman, Ronald A.
APPLICANT: Chisholm, George
TITLE OF INVENTION: NOVEL METHODS FOR THE PRODUCTION OF GELATIN AND
TITLE OF INVENTION: FULL-LENGTH TRIPLE HELICAL COLLAGEN IN RECOMBINANT
FILE REFERENCE: 225002030400
CURRENT APPLICATION NUMBER: US/09/585,887
CURRENT FILING DATE: 2000-05-31
PRIOR APPLICATION NUMBER: 09/289,578
PRIOR FILING DATE: 1999-04-09
PRIOR APPLICATION NUMBER: 60/084,828
PRIOR FILING DATE: 1998-05-08
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 9
LENGTH: 1461
TYPE: PRT
ORGANISM: Homo sapiens
US-09-585-887-9

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Query Match	9.1%	Score 118.5;	DB 4;	Length 1461;
Best Local Similarity	36.3%	Pred. No. 0.0026;		
Matches	33;	Conservative	2;	Mismatches 23; Indels 33; Gaps 4

QY	3	POGPAAS--PORTKGLILLLLQLLPAPSSASBIPKQKQAKLQRGEVVDLYGMCLOGPA	60
Db	354	POGGRGSEGGPGGVK-----EPGPG-----PAG-----AAGPA	382

QY	61	GVPERDGSFGANVITPGRGIPGRDGFKEGK	91
Db	383	GNPGADGQPGKAKGANGAPGICAGPCEFGARG	413

RESULT 12
 US-09-289-578-9
 Sequence 9, Application US/09289578
 Patent No. 6428978
 GENERAL INFORMATION:
 APPLICANT: Olsen, David R
 APPLICANT: Chang, Robert
 APPLICANT: McMullin, Hugh
 APPLICANT: Hitzeman, Ronald A.
 APPLICANT: Chisholm, George
 TITLE OF INVENTION: NOVEL METHODS FOR THE PRODUCTION OF GELATIN AND
 TITLE OF INVENTION: FULL-LENGTH TRIPLE HELICAL COLLAGEN IN RECOMBINANT
 FILE OF INVENTION: CELLS
 FILE REFERENCE: 225002030400
 CURRENT APPLICATION NUMBER: US/09/289,578
 CURRENT FILING DATE: 1999-04-10
 PRIOR APPLICATION NUMBER: 60/084,828
 PRIOR FILING DATE: 1998-05-08
 NUMBER OF SEQ ID NOS: 11
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO 9
 LENGTH: 1461

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; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-289-578-9

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Query Match 9.1%; Score 118.5; DB 4; Length 1461;
 Best Local Similarity 36.3%; Pred. NO. 0.0026;
 Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4.

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QY      3 PGPAPAS--PQRLRGLLLLLLQLLPASSASLPIPGKQAOLRIHREVVLDLYGMCLOGPA 60
        ||| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db      354 PQGRRSSEPPQGVRG-----EEGPP-----PAG-----AAGPA 382
```

RESULT 13
US-09-227-357-190
: Sequence 190, Application US/09227357
: Patent No. 6342581
: GENERAL INFORMATION:
: APPLICANT: Fischer et al.
: TITLE OF INVENTION: 123 Human Secreted Proteins
: FILE REFERENCE: P2010P1
: CURRENT APPLICATION NUMBER: US/09/227,357
: CURRENT FILING DATE: 1999-01-08
: EARLIER APPLICATION NUMBER: PCT/US98/13684
: EARLIER FILING DATE: 1998-07-07
: EARLIER APPLICATION NUMBER: 60/051,926
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/052,793
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,925
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,929
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/052,803
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/052,732
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,931
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,932
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,916
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,930
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,918
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,920
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/052,733
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/052,795
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,919
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/051,928
: EARLIER FILING DATE: 1997-07-08
: EARLIER APPLICATION NUMBER: 60/055,722
: EARLIER FILING DATE: 1997-08-18
: EARLIER APPLICATION NUMBER: 60/055,723
: EARLIER FILING DATE: 1997-08-18
: EARLIER APPLICATION NUMBER: 60/055,948
: EARLIER FILING DATE: 1997-08-18
: EARLIER APPLICATION NUMBER: 60/055,949
: EARLIER FILING DATE: 1997-08-18
: EARLIER APPLICATION NUMBER: 60/055,953
: EARLIER FILING DATE: 1997-08-18
: EARLIER APPLICATION NUMBER: 60/055,950
: EARLIER FILING DATE: 1997-08-18

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; EARLIER APPLICATION NUMBER: 60/055,947
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,964
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/056,360
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,684
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,984
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/055,954
; EARLIER FILING DATE: 1997-08-18
; EARLIER APPLICATION NUMBER: 60/058,785
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,664
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,660
; EARLIER FILING DATE: 1997-09-12
; EARLIER APPLICATION NUMBER: 60/058,661
; EARLIER FILING DATE: 1997-09-12
; NUMBER OF SEQ ID NOS: 672
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 190
; LENGTH: 128
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (127)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: SITE
; LOCATION: (128)
; OTHER INFORMATION: Xaa equals stop translation
US-09-227-357-190

Query Match
Best Local Similarity 8.9%; Score 115.5; DB 4; Length 128;
Matches 31; Conservative 5; Mismatches 22; Indels 9; Gaps 3;

QY 30 ASEPDKGKQAKLRQREVVDLYNGMC---LOGPAGVGRDSSPGANVTPGTGIPGRDG 85
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 14 ASGQGRGN---QLKGENSPRY--ICSTIPGLPGPPGPGANGSPGHRIGLPGHGRDGD 68
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

QY 86 FKGEKGE 92
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 69 RKGEKGE 75

RESULT 14
US-09-029-348-3
; Sequence 3, Application US/09029348
; Patent No. 6171827
; GENERAL INFORMATION:
; APPLICANT: THE VICTORIA UNIVERSITY OF MANCHESTER
; TITLE OF INVENTION: NOVEL PROCOLLAGENS
; FILE REFERENCE: d087857PUS LISTING
; CURRENT APPLICATION NUMBER: US/09/029,348
; CURRENT FILING DATE: 1998-05-07
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 3
; LENGTH: 623
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SEQUENCE
; OTHER INFORMATION: DERIVED FROM CDNA OF PROCOLLAGENS
US-09-029-348-3

Query Match
Best Local Similarity 8.8%; Score 115; DB 3; Length 623;
Matches 39; Conservative 8; Mismatches 47; Indels 14; Gaps 5;
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```
QY 22 LQLPASSASEIPKQKQAKLRQREVVDLY--NGMCLOGPAGVGRDSSPGANVTPGTG 79
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 72 LDCPNP---EIPGECCAVCPQPTAPTRPPNGGPGGPKGDPGPGIPGRNDPGIGP 127
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

QY 80 IPGRDGEKGEKGECLRESF---EESWTPNYKQCSNSSLNVCIDLGKIA 124
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 128 QPSPGSPGPGIC--ESCPGPPQNYSPQYDSYDYS---GVAVGGLA 170
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

RESULT 15
US-09-029-348-2
; Sequence 2, Application US/09029348
; Patent No. 6171827
; GENERAL INFORMATION:
; APPLICANT: THE VICTORIA UNIVERSITY OF MANCHESTER
; TITLE OF INVENTION: NOVEL PROCOLLAGENS
; FILE REFERENCE: d087857PUS LISTING
; CURRENT APPLICATION NUMBER: US/09/029,348
; CURRENT FILING DATE: 1998-05-07
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentln Ver. 2.0
; SEQ ID NO 2
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SEQUENCE
; OTHER INFORMATION: DERIVED FROM CDNA OF PROCOLLAGENS
US-09-029-348-2

Query Match
Best Local Similarity 8.8%; Score 115; DB 3; Length 626;
Matches 39; Conservative 8; Mismatches 47; Indels 14; Gaps 5;

QY 22 LQLPASSASEIPKQKQAKLRQREVVDLY--NGMCLOGPAGVGRDSSPGANVTPGTG 79
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 72 LDCPNP---EIPGECCAVCPQPTAPTRPPNGGPGGPKGDPGPGIPGRNDPGIGP 127
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

QY 80 IPGRDGEKGEKGECLRESF---EESWTPNYKQCSNSSLNVCIDLGKIA 124
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
DB 128 QPSPGSPGPGIC--ESCPGPPQNYSPQYDSYDYS---GVAVGGLA 170
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||

Search completed: August 13, 2003, 13:28:42
Job time : 30 secs
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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 13, 2003, 13:22:12 ; Search time 96 Seconds

(Without alignments)
653.196 Million cell updates/sec

Title: us-09-938-418-7

Perfect score: 1301
Sequence: 1 MRPGPASPQRRLGILLIL.....GDASTGWSVSRITIEELPK 243

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 830525 segs, 258052604 residues

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :
1: SP:archaea:*
2: SP:bacteria:*
3: SP:fungi:*
4: SP:human:*
5: SP:invertebrate:*
6: SP:mammal:*
7: SP:mhc:*
8: SP:organelle:*
9: SP:phage:*
10: SP:plant:*
11: SP:rodent:*
12: SP:virus:*
13: SP:vertebrate:*
14: SP:unclassified:*
15: SP:ivirius:*
16: SP:bacteriophage:*
17: SP:archaeop:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1294	99.5	243	4	096CG8	096CG8 homo sapien
2	1216	93.5	245	11	08CG08	08CG08 rattus norv
3	1201	92.3	245	11	09D1D6	09D1D6 mus musculu
4	1052	80.9	232	4	081X63	081X63 homo sapien
5	132	10.1	565	11	08K036	08K036 mus musculu
6	124.5	9.6	717	4	09N052	09N052 homo sapien
7	122.5	9.4	1472	13	09OZAO	09OZAO gallus gall
8	120	9.2	287	11	08CFR0	08CFR0 mus musculu
9	120	9.2	1752	5	007265	007265 strongyloce
10	119	9.1	289	5	018799	018799 caenorhabd1
11	118.5	9.1	1461	4	076045	076045 homo sapien
12	118.5	9.1	1464	4	08N473	08N473 homo sapien
13	118	9.1	291	5	09NAR3	09NAR3 caenorhabd1
14	118	9.1	832	4	096JF7	096JF7 homo sapien
15	118	9.1	1860	4	081ZC6	081ZC6 homo sapien
16	117.5	9.0	568	11	08CD80	08CD80 mus musculu

17	117.5	9.0	739	11	070575	070575 mus musculu
18	117.5	9.0	751	11	09R1N9	09R1N9 mus musculu
19	117	9.0	327	5	001799	001799 caenorhabd1
20	117	9.0	1659	11	09Q2S0	09Q2S0 mus musculu
21	116	8.9	886	4	09N0B7	09N0B7 mus musculu
22	116	8.9	886	13	090796	090796 homo sapien
23	115.5	8.9	1621	4	09H4R9	09H4R9 homo sapien
24	115.5	8.9	1684	6	08HYC1	08HYC1 canis fam1
25	115	8.8	957	4	09H0V3	09H0V3 homo sapien
26	115	8.8	957	4	096P44	096P44 homo sapien
27	115	8.8	1163	4	08N6U4	08N6U4 homo sapien
28	114.5	8.8	311	5	001904	001904 caenorhabd1
29	114.5	8.8	496	4	08NE08	08NE08 homo sapien
30	114	8.8	304	5	09XV3	09XV3 caenorhabd1
31	114	8.8	304	5	09U349	09U349 caenorhabd1
32	114	8.8	304	5	09U348	09U348 caenorhabd1
33	114	8.8	312	11	08CHX9	08CHX9 mus musculu
34	113.5	8.7	289	11	08BVD7	08BVD7 mus musculu
35	113.5	8.7	300	5	022183	022183 caenorhabd1
36	113.5	8.7	345	5	095WV2	095WV2 meloidogyne
37	113.5	8.7	1420	13	090W37	090W37 gallus gall
38	113.5	8.7	1549	11	060444	060444 cricetus
39	113.5	8.7	1600	4	09U5H6	09U5H6 homo sapien
40	113.5	8.7	2944	11	063870	063870 mus musculu
41	112.5	8.6	1307	13	08JEF7	08JEF7 xenopus lae
42	112	8.6	325	5	017402	017402 caenorhabd1
43	112	8.6	347	6	09XJ25	09XJ25 bos taurus
44	111.5	8.6	428	5	022369	022369 caenorhabd1
45	111.5	8.6	438	11	08K4P3	08K4P3 mus musculu

ALIGNMENTS

RESULT 1

ID 096CG8 PRELIMINARY: PRT: 243 AA.
AC 096CG8;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE Similar to RIKEN CDNA 1110014B07 gene (Collagen triple helix repeat-containing protein 1).
GN CTNRC1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE-Kidney;
RA Straussberg R.;
RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE-Aortic smooth muscle;
RA Lehnert W., Moore D.P., Harmon K.J., Mancini M.L., Lindner V.;
RT "Expression of the novel collagen triple helix repeat-containing gene (ctnrc1) suggests functions in multiple organ systems."
RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC014245; AAI14245.1;
DR EMBL; AY136825; AAI15749.1;
DR InterPro: IPR000087; Collagen.
DR Pfam: PF01391; Collagen; 1;
SO SEQUENCE 243 AA; 26224 MW; A11FFB1C66867F9 CRC64;

Query Match 99.5%; Score 1294; DB 4; Length 243;
Best local similarity 99.6%; Pred. No. 4.7e-119;
Matches 242; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
1 MRPGPASPQRRLGILLILQLPAPSSASEIPKQKQAAQLRQREVVDLYNGMKLQGA 60
1 MRPGPASPQRRLGILLILQLPAPSSASEIPKQKQAAQLRQREVVDLYNGMKLQGA 60

RN [1]
 RP SEQUENCE FROM N.A.
 RA Sanuki N., Fujiki K., Kanai A., Tanaka Y., Iwata T.;
 RT "Novel polypeptide found in human cornea cDNA library."
 RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF395488; AAO17919.1;
 SQ SEQUENCE 232 AA; 25163 MW; E9D4BC30304837ED CRC64;

Query Match 80.9%; Score 1052; DB 4; Length 232;
 Best Local Similarity 83.1%; Pred. No. 2,7e-95;
 Matches 201; Conservative 8; Mismatches 19; Indels 14; Gaps 2;

QY 1 MRPGPASPQRRLGLLLLLDLPAPSSASEIPKQKQALROREVVDLYNKGCLGPA 60
 DB 1 MPPGGRSIT-VKLRKTVSRKRLKNGSPSAFOGLGCR-----YNGMCLGPA 46
 QY 61 GVGGRDSSPGANVYPTGPIGRDGFGEKGECLRESEESWPNYKQCSWSSLYNGIDL 120
 DB 47 GVGGRDSSPGANVYPTGPIGRDGFGEKGECLRESEESWPNYKQCSWSSLYNGIDL 106
 QY 121 GKIAECTFTMRNSALRVLFSSSLRLKCRNACCOMRYFTFNGAECSPPIEAIIYLDQ 180
 DB 107 GKIAECTFTMRNSALRVLFSSSLRLKCRNACCOMRYFTFNGAECSPPIEAIIYLDQ 166
 QY 181 GSEPMNSTINIHRTSSVEGLCEGAGLVYAIWGTCSYPRGDASTGMSYSRIIIEE 240
 DB 167 GSEPMNSTINIHRTSSVEGLCEGAGLVYAIWGTCSYPRGDASTGMSYSRIIIEE 226
 QY 241 LP 242
 DB 227 LP 228

RESULT 5
 Q8K036 PRELIMINARY; PRT; 565 AA.

AC 08K036;
 DT 01-OCT-2002 (TREMblrel. 22, Created)
 DT 01-OCT-2002 (TREMblrel. 22, Last sequence update)
 DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
 DE Similar to collagen, type XIII, alpha 1.
 GN COL13A1.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NC NCB1_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE-Breast tumor;
 RA Strausberg R.;
 RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL: BC034164; AAH34164.1;
 DR MGD: MGI:1277201; COL13a1.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF01391; Collagen; 5.
 DR ProDom: PD000007; Collagen; 1.
 KW Collagen.
 SQ SEQUENCE 565 AA; 56726 MW; DBD3FF99D670195F CRC64;

Query Match 10.1%; Score 132; DB 11; Length 565;
 Best Local Similarity 33.9%; Pred. No. 0.00024;
 Matches 38; Conservative 13; Mismatches 35; Indels 26; Gaps 6;

QY 27 PSSASEI-----PKGKQAKQLROREVVDLYNG-----MCLGPGAGVPGRDGSPGA 71
 DB 393 PGAGAGGPGSPRG-AKGEKGEKEMVD-YNGSINELAQEIRTLALMGPRPLPGQTGPGR 450
 QY 72 NWTPGP-----GIPGDFGKEKGECLRESEESWPNYKQCSWSSLYNG 117
 DB 451 ---PGTPGGRGEGIGLPGPGHDDKGRGRKPGAGGMSRTPRKGMASRREG 499

RESULT 6

Q9N052
 ID Q9N052 PRELIMINARY; PRT; 717 AA.

AC Q9N052;
 DT 01-OCT-2000 (TREMblrel. 15, Created)
 DT 01-OCT-2000 (TREMblrel. 15, Last sequence update)
 DT 01-OCT-2002 (TREMblrel. 22, Last annotation update)
 DE Type XIII collagen.
 GN COLXIII1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 NC NCB1_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Snellman A., Tu H., Vaeisaeen T., Kvist A.P., Huhtala P.,
 RA Phlajantlemi T.;
 RT "A short sequence in the N-terminal region is required for the
 RT trimerization of type XIII collagen and is conserved in other
 RT collagenous transmembrane proteins."
 RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AJ293624; CAC00688.1;
 DR GeneW: HGNC:2190; COL13A1.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF01391; Collagen; 9.
 DR ProDom: PD000007; Collagen; 1.
 KW Collagen.
 SQ SEQUENCE 717 AA; 69964 MW; A311E9C7D3E87577 CRC64;

Query Match 9.6%; Score 124.5; DB 4; Length 717;
 Best Local Similarity 42.1%; Pred. No. 0.0018;
 Matches 32; Conservative 8; Mismatches 17; Indels 19; Gaps 4;

QY 34 PKGKQAKQLROREVVDLYNG-----MCLGPGAGVPGRDGSPGANVY-----G 76
 DB 431 PKG-SKEPGKGEKEMVD-YNGSINELAQEIRTLALMGPRPLPGQTGPGRGEGIG 488
 QY 77 TPPIGPGDGFGEKGE 92
 DB 489 LPGPPGHGDKGKPRGK 504

RESULT 7

ID Q90ZAO PRELIMINARY; PRT; 1472 AA.
 AC Q90ZAO;
 DT 01-DEC-2001 (TREMblrel. 19, Created)
 DT 01-DEC-2001 (TREMblrel. 19, Last sequence update)
 DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
 DE Collagen type XX alpha 1 precursor.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 NC NCB1_TaxID=9031;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA MEDLINE-21303548; Pubmed-11274142;
 RA Koch M., Foley J.E., Hahn R., Zhou P., Burgeson R.E., Gerecke D.R.,
 RA Gordon M.K.;
 RT "alpha 1(X) Collagen, a New Member of the Collagen Subfamily, Fibril-
 RT associated Collagens with Interrupted Triple Helices."
 RL J. Biol. Chem. 276:23120-23126(2001).
 DR EMBL: AF312825; AAK58847.1;
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR003961; FN III.
 DR InterPro: IPR003129; TSPN.
 DR InterPro: IPR002035; VWF_A.
 DR Pfam: PF01391; Collagen; 4.
 DR Pfam: PF00041; fn3; 6.
 DR Pfam: PF02210; TSPN; 1.
 DR Pfam: PF00092; vwa; 1.
 DR PRINTS: PR00453; VWFADOMAIN.
 DR ProDom: PD000007; Collagen; 1.

DR SMART: SM00060: FN3: 6.
 DR SMART: SM00210: TSPN: 1.
 DR SMART: SM00327: VMA: 1.
 DR PROSITE: PS50234: VMFA: 1.
 KW Collagen: Signal.
 FT SIGNAL: 1 28
 SQ SEQUENCE 1472 AA: 156903 MW: 53616115790566RD CRC64: POTENTIAL.

Query Match
 Best Local Similarity 9.4%; Score 122.5; DB 13; Length 1472;
 Matches 37; Conservative 7; Mismatches 27; Indels 39; Gaps 6;

DB 1161 PPGPSPGR-RG-----PQGGGPPGKGGPPGKGGPPGSGPSGQSGPSSQ-----1207

QY 3 PGPPASPPQRLRGLLLLLLLLP-----APSSASEI-----PKGKAKQLRQREV 47

DB 48 VDLVNGMCLQPGAVP-----GRDGSPPGANVTPGTPGIPGRDGFKEGK 91

DB 1208 -----GITGGVPPGPIGKGGKDPGSPGMGIPGVGAPGRDGLQAGK 1252

RESULT 8

QBCFR0 PRELIMINARY: PRT; 287 AA.

ID 08CFR0
 AC 08CFR0;
 DT 01-MAR-2003 (TREMblrel. 23, Created)
 DT 01-MAR-2003 (TREMblrel. 23, Last sequence update)
 DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
 DE Similar to C1q-like.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 RN NCBI_TaxID=10090;
 RP SEQUENCE FROM N.A.
 RC TISSUE=Eye;
 RA Strausberg R.;
 RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL: BC040774; AAA40774.1; -
 SQ SEQUENCE 287 AA: 29292 MW: 8FF89EC1C7420415 CRC64;

Query Match
 Best Local Similarity 9.2%; Score 120; DB 11; Length 287;
 Matches 42; Conservative 10; Mismatches 57; Indels 12; Gaps 4;

QY 27 PSSASEIRKQKAKQLRQREV-DLYNC---MCLQPGAVPGRDGSPPGANVTPGTPGIPG 82

DB 44 PAGAAPPPEPSTAL---EVMQDLSANPPPPFIOGPKGDPGRGKPPGPPGPPG 100

QY 83 RDGFKEGECIRSEFSESWTPNYKQCSWISLYGIDLGKIAECTFTKMSNSALRYLFS 142

DB 101 PRGPGEKDGSRPL-----PGDLITSAAGVGVSGGTGGGDTGEVTSALSAF 155

QY 143 G 143

DB 156 G 156

RESULT 9

Q07265 PRELIMINARY: PRT; 1752 AA.

AC 007265;
 DT 01-NOV-1996 (TREMblrel. 01, Created)
 DT 01-NOV-1996 (TREMblrel. 01, Last sequence update)
 DT 01-OCT-2002 (TREMblrel. 22, Last annotation update)
 DE 3 alpha procollagen.
 GN COLP3ALPHA.
 OS Strongylocentrotus purpuratus (Purple sea urchin).
 OC Eukaryota; Metazoa; Echinodermata; Eleutherozoa; Echinozoa;
 OC Echinoidea; Euechinoidea; Echinacea; Echinoida; Strongylocentrotidae;
 OC Strongylocentrotus.
 RN NCBI_TaxID=7668;
 SQ SEQUENCE 1752 AA: 170210 MW: 1AESA21569346D CRC64;

RP SEQUENCE FROM N.A.
 RX MEDLINE=93186842; PubMed=8444899;
 RA Exposito J., Y., D'Alessio M., Di Liberto M., Ramirez F.;
 RT "Complete primary structure of a sea-urchin type IV collagen and
 RT analysis of the 5' end of its gene."
 RL J. Biol. Chem. 268:5249-5254(1993).
 DR EMBL: L02917; AAA50039.1; -
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR001442; ProcollagenC4.
 DR Pfam: PF01413; C4; 2.
 DR Pfam: PF01391; Collagen: 25.
 DR ProDom: PD000007; Collagen: 9.
 DR ProDom: PD003923; ProcollagenC4; 1.
 DR SMART: SM00111; C4; 2.
 KW Collagen.
 SQ SEQUENCE 1752 AA: 170210 MW: 1AESA21569346D CRC64;

Query Match
 Best Local Similarity 9.2%; Score 120; DB 5; Length 1752;
 Matches 46; Conservative 20; Mismatches 61; Indels 78; Gaps 9;

QY 3 PGPPASPPQRLRGLLLLLLLLPAPSSASEIRKQKAKQLRQREVVDLYNGMCLQPGAV 62

DB 1453 PGPPGROGR-----PGPG-----PPG-----LTGDKGT 1477

QY 63 PGDGSPPGANVTPGTPGIPGRDGFKEGECIRSEF-----EESWT 103

DB 1478 PGVQGNPGVSGVPGGPGIKGEGFPGONGQPDPPGPKGAGIPIGSSGFFIYRHSGT 1537

QY 104 PNYKCC-----SW-----SLVNGIDLGKIAECTFTKMSNSALRYLFSGLRL 147

DB 1538 TSIPCCPGTAKAMWIGISILTYQNGERGHGDLGRPGSC---LKRSTMPPLFC-NINN 1592

QY 148 KCRNACQWRWYFFENGAECSGPLT 172

DB 1593 VCHVASRNDYSYWLSTTE---PMPM 1614

RESULT 10

Q18799 PRELIMINARY: PRT; 289 AA.

ID 018799;
 AC 018799;
 DT 01-NOV-1996 (TREMblrel. 01, Created)
 DT 01-JAN-1998 (TREMblrel. 05, Last sequence update)
 DT 01-MAR-2003 (TREMblrel. 23, Last annotation update)
 DE C53B4.5 protein.
 GN C53B4.5.
 OS Caenorhabditis elegans.
 OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditidae; Rhabditoidae;
 OC Rhabditidae; Pelodermidae; Caenorhabditis.
 RN NCBI_TaxID=6239;
 RP SEQUENCE FROM N.A.
 RA Berts M.;
 RL Submitted (DEC-1995) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=9906613; PubMed=9851916;
 RA none;
 RT "Genome sequence of the nematode C.elegans: A platform for
 RT investigating biology."
 RL Science 282:2012-2018(1998).
 DR EMBL: Z68215; CA92453.1; -
 DR WormPeP: C53B4.5; CE03091.
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR002486; Col_cuticle_N.
 DR Pfam: PF01391; Collagen: 2.
 DR Pfam: PF01484; Col_cuticle_N; 1.
 SQ SEQUENCE 289 AA: 28994 MW: 2999A3FF9CC0B044 CRC64;

Query Match
 Best Local Similarity 9.1%; Score 119; DB 5; Length 289;
 Matches 29; Conservative 5; Mismatches 20; Indels 30; Gaps 2;

QY 25 PAFSSASEIPKQKQAKLQREVVDLYNGMCLGPGVGRDGS-----P 69
 DB 203 PQGSGPEPGRPGQPGS-----RGPAQPGKDKAOGPGSEKANGEPGQP 247
 QY 70 GANVIEPTGIPGRDGFKEGKGC 93
 DB 248 GRDGGPGRPGQPGRDGHPGKGVGC 271

RESULT 11
 076045 PRELIMINARY; PRT; 1461 AA.
 AC 076045;
 DT 01-NOV-1998 (TEMBLrel. 08, Created)
 DT 01-NOV-1999 (TEMBLrel. 12, Last sequence update)
 DT 01-OCT-2002 (TEMBLrel. 22, Last annotation update)
 DE Pro alpha 1(I) collagen.
 GN COL1A1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=85130970; PubMed=2857713; Ramirez F.;
 RA Chu M.L., de Wet W., Bernard M., Ramirez F.;
 RT "Fine structural analysis of the human pro-alpha 1 (I) collagen gene.
 RT Promoter structure, AluI repeats, and polymorphic transcripts.";
 RL J. Biol. Chem. 260:2315-2320(1985).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=68329734; PubMed=2843432;
 RA D'Alessio M., Bernard M., Pretorius P.J., de Wet W., Ramirez F.;
 RT "Complete nucleotide sequence of the region encompassing the first
 RT twenty-five exons of the human pro alpha 1(I) collagen gene.";
 RL Gene 67:105-115(1988).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=69025644; PubMed=3178743;
 RA Tromp G., Kivianleht H., Stacey A., Shikata H., Baldwin C.T.,
 RA Jaenisch R., Prockop D.J.;
 RT "Structure of a full-length cDNA clone for the prepro alpha 1(I) chain
 RT of human type I procollagen.";
 RL Biochem. J. 253:919-922(1988).
 RN [4]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=91138770; PubMed=1995349;
 RA Maatta A., Bornstein P., Penttinen R.P.;
 RT "Highly conserved sequences in the 3'-untranslated region of the
 RT COL1A1 gene bind cell-specific nuclear proteins.";
 RL FEBS Lett. 279:9-13(1991).
 RN [5]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92157916; PubMed=1787829;
 RA Westerhausen A., Constantinou C.D., Pack M., Peng M.Z., Hanning C.,
 RA Olsen A.S., Prockop D.J.;
 RT "Completion of the last half of the structure of the human gene for
 RT the Pro alpha 1 (I) chain of type I procollagen (COL1A1).";
 RL Matrix 11:375-379(1991).
 RN [6]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98107942; PubMed=9443882;
 RA Korhko J., Ala-Korhko L., De Paape A., Nuytink L., Earley J.,
 RA Prockop D.J.;
 RT "Analysis of the COL1A1 and COL1A2 genes by PCR amplification and
 RT scanning by conformation-sensitive gel electrophoresis identifies only
 RT COL1A1 mutations in 15 patients with osteogenesis imperfecta type I:
 RT identification of common sequences of null-allele mutations.";
 RL Am. J. Hum. Genet. 62:98-110(1998).
 RN [7]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98107942; PubMed=9443882;
 RA Korhko J.M., Earley J.J., Nuytink L., DePaape A., Prockop D.J.,

RA Ala-Korhko L.;
 RL Submitted (May-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF017178; AAB94054.2;
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR000885; Fib_collagen_C.
 DR InterPro: IPR001007; VWF_C.
 DR Pfam: PF01410; COLFI; 1.
 DR Pfam: PF01391; COLFI; 18.
 DR Pfam: PF00093; VWC; 1.
 DR ProDom: PD000007; Collagen; 2.
 DR ProDom: PD002078; Fib_collagen_C; 1.
 DR SMART: SM00038; COLFI; 1.
 DR SMART: SM00214; VWC; 1.
 DR PROSITE: PS01208; VWF_C; 1.
 KW Collagen.
 SQ SEQUENCE 1461 AA; 138630 MW; 9ACF6DE30EA7BE21 CRC64;

Query Match 9.1%; Score 118.5; DB 4; Length 1461;
 Best Local Similarity 36.3%; Pred. No. 0.017;
 Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4;

QY 3 PQGPAAS--PQRLGILLILLQLPAPSSASEIPKQKQAKLQREVVDLYNGMCLGPA 60
 DB 357 PQGPRSEGGQGVGRG-----EPGPPG---PAG-----AAGPA 385

QY 61 GVPGRDSSPGANVTPGTGIPGRDGFKEGK 91
 DB 383 GNPGRDQPGAKANGAPGAGAPGPPGANG 413

RESULT 12
 08N473
 ID 08N473 PRELIMINARY; PRT; 1464 AA.
 AC 08N473;
 DT 01-OCT-2002 (TEMBLrel. 22, Created)
 DT 01-OCT-2002 (TEMBLrel. 22, Last sequence update)
 DT 01-MAR-2003 (TEMBLrel. 23, Last annotation update)
 DE Hypothetical protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Cranialata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Brain;
 RA Strausberg R.;
 RL Submitted (Aug-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL: BC036531; AAH36531.1;
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR000885; Fib_collagen_C.
 DR InterPro: IPR001007; VWF_C.
 DR Pfam: PF01410; COLFI; 1.
 DR Pfam: PF01391; COLFI; 18.
 DR ProDom: PD000007; Collagen; 2.
 DR ProDom: PD002078; Fib_collagen_C; 1.
 DR SMART: SM00038; COLFI; 1.
 DR SMART: SM00214; VWC; 1.
 DR PROSITE: PS01208; VWF_C; 1.
 KW Hypothetical protein; Collagen.
 SQ SEQUENCE 1464 AA; 139011 MW; B0581P8D1C89DDE8 CRC64;

Query Match 9.1%; Score 118.5; DB 4; Length 1464;
 Best Local Similarity 36.3%; Pred. No. 0.017;
 Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4;

QY 3 PQGPAAS--PQRLGILLILLQLPAPSSASEIPKQKQAKLQREVVDLYNGMCLGPA 60
 DB 357 PQGPRSEGGQGVGRG-----EPGPPG---PAG-----AAGPA 385

QY 61 GVPGRDSSPGANVTPGTGIPGRDGFKEGK 91
 DB 386 GNPGRDQPGAKANGAPGAGAPGPPGANG 416

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RESULT 13
ID 09NAR3 PRELIMINARY; PRT; 291 AA.
AC 09NAR3;
DT 01-OCT-2000 (TREMBlrel. 15, Created)
DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE C24F3.6 protein.
GN C24F3.6.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditidae;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBL_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RA McMurtry A.A.;
RL Submitted (APR-1998) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
investigating biology."
RL Science 282:2012-2018 (1998).
DR EMBL; AL023716; CAB97232.1; -.
DR WormPeP; C24F3.6; CE18523.
DR InterPro; IPR000087; Collagen.
DR InterPro; IPR002486; Collagen.
DR InterPro; IPR002965; P_rich_extensn.
DR Pfam; PF01391; Collagen; 2.
DR Pfam; PF01484; COL-cuticle.N; 1.
DR PRINTS; PR01217; PRICHEXTENS.
DR ProDom; PD000007; Collagen; 2.
KW Collagen.
SQ
SEQUENCE 291 AA; 29191 MW; 8A8F368523A3534 CRC64;

Query Match 9.1%; Score 118; DB 5; Length 291;
Best Local Similarity 34.5%; Pred. No. 0.0025;
Matches 29; Conservative 6; Mismatches 19; Indels 30; Gaps 2;

QY 25 PAPSASSEIPKQKQ-KAQLRQREVVDLYNGMCLQGPAGVPGDSSPGA----- 71
DB 205 PQPGAGPEGPGPGQ-----RGPAGRGKSGSGGQGEKGAASGEPGP 249
QY 72 --NVTPTGTPGRCGRGFGKGECEC 93
DB 250 GRDGPGRHGGPGKDRGPEKGV 273

RESULT 14
ID 096JF7 PRELIMINARY; PRT; 832 AA.
AC 096JF7;
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Hypothetical protein KIAA1870 (Fragment).
GN KIAA1870.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBL_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Tissue=Brain;
RX MEDLINE=21245130; PubMed=11347906;
RA Nagase T., Nakayama M., Nakajima D., Kikuno R., Ohara O.;
RT "Prediction of the coding sequences of unidentified human genes. XX.
The complete sequences of 100 new cDNA clones from brain which code
for large proteins in vitro."
RL DNA Res. 8:85-95(2001).
DR EMBL; AB058773; BAB47499.1; -.

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DR InterPro; IPR000087; Collagen.
DR InterPro; IPR000885; Fib_collagen_C.
DR Pfam; PF01410; COLFI; 1.
DR Pfam; PF01391; Collagen; 9.
DR ProDom; PD002078; Fib_collagen_C; 1.
DR SMART; SM00038; COLFI; 1.
KW Hypothetical protein.
FT NON_TER
SQ SEQUENCE 832 AA; 83207 MW; 527640BD635A337F CRC64;

Query Match 9.1%; Score 118; DB 4; Length 832;
Best Local Similarity 47.8%; Pred. No. 0.0092;
Matches 33; Conservative 4; Mismatches 26; Indels 6; Gaps 3;

QY 25 PAPSASSEIPKQKQ-KAQLRQREVVDLYNGMCLQGPAGVPGDSSPGANVTPTGIPGR 83
DB 367 PKSGKAGRGPKQKQKAGAPGRGVQGG--LPGRGVYVGRQGLE--TAGPDGLGR 421
QY 84 DGFKEGKE 92
DB 422 DQAGQOGE 430

RESULT 15
ID 081ZC6 PRELIMINARY; PRT; 1860 AA.
AC 081ZC6;
DT 01-MAR-2003 (TREMBlrel. 23, Created)
DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE Collagen XVII proalpha 1 chain precursor.
GN COL27A1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
OX NCBL_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Tissue=Cartilage;
RA Pace J.M., Corrado M., Missero C., Byers P.H.;
RT "Identification, characterization and expression analysis of a new
RT fibrillar collagen gene, COL27A1."
RL Submitted (SEP-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY149237; AAM41263.1; -.
KW Signal.
FT SIGNAL 1 41 POTENTIAL.
FT CHAIN 625 1621 COLLAGEN XVII PROALPHA 1 CHAIN.
SQ SEQUENCE 1860 AA; 186891 MW; 5F8CDFAF4B6014EC CRC64;

Query Match 9.1%; Score 118; DB 4; Length 1860;
Best Local Similarity 47.8%; Pred. No. 0.025;
Matches 33; Conservative 4; Mismatches 26; Indels 6; Gaps 3;

QY 25 PAPSASSEIPKQKQ-KAQLRQREVVDLYNGMCLQGPAGVPGDSSPGANVTPTGIPGR 83
DB 1395 PKSGKAGRGPKQKQKAGAPGRGVQGG--LPGRGVYVGRQGLE--TAGPDGLGR 1449
QY 84 DGFKEGKE 92
DB 1450 DQAGQOGE 1458

Search completed: August 13, 2003, 13:27:21
Job time : 98 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:15:46 ; Search time 23 Seconds

(without alignments)
496.847 Million cell updates/sec

Title: US-09-938-418-7

Perfect score: 1301
Sequence: 1 MRPQGPASPORLRGLLL.....GDASTGWSVSRIIEELPK 243

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs, 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08
Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	122.5	9.4	246 1 C10C_MOUSE	Q02105 mus musculu
2	118.5	9.1	CA11_HUMAN	P02452 homo sapien
3	117	9.0	CA54_CANFA	Q28247 canis fami1
4	116	8.9	CA34_HUMAN	Q01955 homo sapien
5	115.5	8.9	CA54_HUMAN	P29400 homo sapien
6	115.5	8.9	C077_HUMAN	Q9b12 homo sapien
7	115.5	8.9	CA1H_HUMAN	P39060 homo sapien
8	115.5	8.9	CA14_HUMAN	P02462 homo sapien
9	115	8.8	CA13_HUMAN	P02461 homo sapien
10	115	8.8	CA24_ARCSU	P27393 ascaris suu
11	113.5	8.7	CA64_HUMAN	Q14031 homo sapien
12	113	8.7	CA17_HUMAN	Q02388 homo sapien
13	112	8.6	C10C_MOUSE	P02747 homo sapien
14	111	8.5	CA12_BOVIN	P02459 bos taurus
15	110.5	8.5	CA11_RAT	P02454 rattus norv
16	110.5	8.5	CA11_MOUSE	P02457 mus musculu
17	110.5	8.5	CA11_MOUSE	Q9x577 canis fami1
18	110	8.5	C10C_MOUSE	Q75973 canis fami1
19	110	8.5	CC34_CAEEL	P34667 caenorhabd1
20	110	8.5	CA39_HUMAN	Q14050 homo sapien
21	110	8.5	CA13_BOVIN	P04258 bos taurus
22	110	8.5	CA11_CHICK	P02457 gallus gall
23	110	8.5	CA1B_HUMAN	P12107 homo sapien
24	109	8.4	CA14_MOUSE	P02463 mus musculu
25	109	8.4	CA14_CAEEL	P17139 caenorhabd1
26	108.5	8.3	CA12_HUMAN	P02458 homo sapien
27	108.5	8.3	CA12_MOUSE	P28841 mus musculu
28	107	8.2	CA18_HUMAN	P27658 homo sapien
29	107	8.2	CA18_MOUSE	Q92390 bos taurus
30	106.5	8.2	MSRE_BOVIN	P21758 bos taurus
31	106.5	8.2	CA18_MOUSE	Q00780 mus musculu
32	106.5	8.2	CA11_BOVIN	P02453 bos taurus
33	106.5	8.2	CA13_CHICK	P12105 gallus gall

34	106.5	8.2	1464 1 CA13_MOUSE	P08121 mus musculu
35	106.5	8.2	1758 1 CA24_CAEEL	P17140 caenorhabd1
36	106	8.1	296 1 CC01_CAEEL	P08124 caenorhabd1
37	106	8.1	301 1 CC02_CAEEL	P17656 caenorhabd1
38	106	8.1	302 1 CCDC_CAEEL	P17657 caenorhabd1
39	106	8.1	482 1 CA1B_RAT	P20909 rattus norv
40	106	8.1	744 1 CA18_RABIT	P14282 oryctolagus
41	106	8.1	1143 1 CA1I_HUMAN	Q14993 homo sapien
42	106	8.1	1804 1 CA1B_MOUSE	Q61245 mus musculu
43	105.5	8.1	283 1 YQ33_CAEEL	Q09233 caenorhabd1
44	105.5	8.1	674 1 CA1A_BOVIN	P23206 bos taurus
45	105.5	8.1	674 1 CA1A_CHICK	P08125 gallus gall

ALIGNMENTS

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RESULT 1
C10C_MOUSE STANDARD; PRT; 246 AA.
ID C10C_MOUSE
AC Q02105;
DT 01-JUL-1993 (Rel. 26, Created)
DT 01-JUL-1993 (Rel. 26, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Complement C1q subcomponent, C chain precursor.
GN C10G OR C10C.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sclurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=ICR; TISSUE=Macrophage;
RX MEDLINE=93011118; PubMed=1396691;
RA Petry F., Reid K.B.M., Loos M.,
RT "Isolation, sequence analysis and characterization of cDNA clones
RT coding for the C chain of mouse C1q. Sequence similarity of
RT complement subcomponent C1q, collagen type VIII and type X and
RT precerebellin.";
RL Eur. J. Biochem. 209:129-134(1992).
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=BALB/C; TISSUE=Liver;
RX MEDLINE=96186528; PubMed=8606057;
RA Petry F., McClive P.J., Botto M., Morley B.J., Morahan G., Loos M.;
RT "The mouse C1q genes are clustered on chromosome 4 and show
RT conservation of gene organization.";
RL Immunogenetics 43:370-376(1996).
RN [3]
RP FUNCTION: C1Q ASSOCIATES WITH THE PROENZYMES C1R AND C1S TO YIELD
RN C1, THE FIRST COMPONENT OF THE SERUM COMPLEMENT SYSTEM. THE
RN COLLAGEN-LIKE REGIONS OF C1Q INTERACT WITH THE CA(2+)-DEPENDENT
RN C1R(2)C1S(2) PROENZYME COMPLEX. AND EFFICIENT ACTIVATION OF C1
RN TAKES PLACE ON INTERACTION OF THE GLOBULAR HEADS OF C1Q WITH THE
RN FC REGIONS OF IGG OR IGM ANTIBODY PRESENT IN IMMUNE COMPLEXES.
RN SUBUNIT: C1 IS A CALCIUM-DEPENDENT TRIMOLECULAR COMPLEX OF C1Q, R
RN AND S IN THE MOLAR RATION OF 1:2:2. C1Q SUBCOMPONENT IS COMPOSED
RN OF NINE SUBUNITS, SIX OF WHICH ARE DISULFIDE-LINKED DIMERS OF THE
RN A AND B CHAINS. AND THREE OF WHICH ARE DISULFIDE-LINKED DIMERS OF THE
RN THE C CHAIN.
RN -1- SIMILARITY: Contains 1 collagenous domain.
RN -1- SIMILARITY: Contains 1 C1q domain.
RN -1- SIMILARITY: Contains 1 C1q domain.
RN This SWISS-PROT entry is copyright. It is produced through a collaboration
RN between the Swiss Institute of Bioinformatics and the EMBL outstation-
RN the European Bioinformatics Institute. There are no restrictions on its
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RN or send an email to license@isb-sib.ch).
RN EMBL: X66295; CAA46993.1; -
RN EMBL: X92960; CAA63535.1; -
RN PIR: S29328; S29328.

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DR MGD: MGI:88225; C1q9.
 DR InterPro: IPR001073; C1q.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; C1q; 1.
 DR Pfam: PF01391; Collagen; 1.
 DR PRINTS: PR00007; COMPLEMENTC1Q.
 DR Prodom: PD000007; C1q_helix; 1.
 DR SMART: SM00110; C1Q; 1.
 DR PROSITE: PS01113; C1Q; 1.
 DR Complement pathway; Plasma; Hydroxylation; Glycoprotein; Collagen;
 KW Repeat; Signal.
 FT CHAIN 1 29
 FT SIGNAL 1 29
 FT CHAIN 30 246
 FT DOMAIN 32 113
 FT DOMAIN 114 246
 FT DISULFID 33 33
 FT MOD_RES 37 37
 FT MOD_RES 40 40
 FT MOD_RES 43 43
 FT MOD_RES 61 61
 FT MOD_RES 64 64
 FT MOD_RES 73 73
 FT MOD_RES 76 76
 FT MOD_RES 79 79
 FT MOD_RES 82 82
 FT MOD_RES 97 97
 FT MOD_RES 100 100
 FT MOD_RES 106 106
 FT MOD_RES 109 109
 FT SEQUENCE 246 AA; 25966 MW; 2F79EA1274BC88E0 CRC64;
 SQ
 Query Match 9.4%; Score 122.5; DB 1; Length 246;
 Best Local Similarity 37.4%; Pred. No. 0.00072;
 Matches 34; Conservative 5; Mismatches 33; Indels 19; Gaps 2;
 DB 5 GPASPORTRLRLILLLIOLPAPSSASEIPKKGKAKQLRQRYVLYNMCQGPAGVG 64
 4 GPSPCQPCGICLLILFLALPRLRSQAS-----ACCYGIPGMPGMPGAG 47
 OY 65 RDGS---PGANYIPTGPIPGKDGKGE 92
 DB 48 KDHGDLGPGKGEPIPAVPGTQPGKGE 78
 RESULT 2
 CAIL_HUMAN STANDARD: PRT; 1464 AA.
 ID CAIL_HUMAN STANDARD: PRT; 1464 AA.
 AC P02452; Q14037; Q15176;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 01-MAR-1989 (Rel. 10, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Collagen alpha 1(I) chain precursor.
 GN COL1A1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE OF 1-472 FROM N.A.
 RX MEDLINE=89025644; PubMed=3178743;
 RA Tromp G., Kulvanliem H., Stacey A., Shikata H., Baldwin C.T.,
 RA Jaenisch R., Prockop D.J.;
 RT "Structure of a full-length cDNA clone for the prepro alpha 1(I)
 RT chain of human type I procollagen.";
 RL Biochem. J. 253:919-922(1988).
 RN [2]
 RP SEQUENCE OF 1-181 FROM N.A.
 RX MEDLINE=84270697; PubMed=6462220;
 RA Chu M.-L., de Wet W.J., Bernard M.P., Ding J.-F., Morabito M.,
 RA Myers J., Williams C., Ramirez F.;
 RT "Human pro alpha 1(I) collagen gene structure reveals evolutionary
 RT conservation of a pattern of introns and exons.";

RL Nature 310:337-340(1984).
 RN [3]
 RP SEQUENCE OF 162-301.
 RC TISSUE-Skin;
 RX MEDLINE=71038625; PubMed=5529814;
 RA Click E.M., Bornstein P.;
 RT "Isolation and characterization of the cyanogen bromide peptides from
 RT the alpha 1 and alpha 2 chains of human skin collagen.";
 RL Biochemistry 9:4699-4706(1970).
 RN [4]
 RP SEQUENCE OF 263-268.
 RC TISSUE-Skin;
 RX MEDLINE=71001508; PubMed=4319110;
 RA Morgan P.H., Jacobs H.G., Segrest J.P., Cunningham L.W.;
 RT "A comparative study of glycopeptides derived from selected
 RT vertebrate collagens. A possible role of the carbohydrate in fibril
 RT formation.";
 RL J. Biol. Chem. 245:5042-5048(1970).
 RN [5]
 RP SEQUENCE OF 425-1464 FROM N.A.
 RX MEDLINE=84080385; PubMed=6689127;
 RA Bernard M.P., Chu M.-L., Myers J.C., Ramirez F., Eikenberry E.F.,
 RA Prockop D.J.;
 RT "Nucleotide sequences of complementary deoxyribonucleic acids for the
 RT pro alpha 1 chain of human type I procollagen. Statistical evaluation
 RT of structures that are conserved during evolution.";
 RL Biochemistry 22:5213-5223(1983).
 RN [6]
 RP SEQUENCE OF 1229-1454 FROM N.A.
 RC TISSUE-Bone;
 RX MEDLINE=88124208; PubMed=3340531;
 RA Maekelae J.K., Raassina M., Virta A., Vuorio E.;
 RT "Human pro alpha 1(I) collagen: cDNA sequence for the C-propeptide
 RT domain.";
 RL Nucleic Acids Res. 16:349-349(1988).
 RN [7]
 RP SEQUENCE OF 1-34 FROM N.A.
 RX MEDLINE=88097389; PubMed=3480516;
 RA Bornstein P., McKay J., Morishima J.K., Devarayalu S., Gellinas R.E.;
 RT "Regulatory elements in the first intron contribute to
 RT transcriptional control of the human alpha 1(I) collagen gene.";
 RL Proc. Natl. Acad. Sci. U.S.A. 84:8865-8873(1987).
 RN [8]
 RP SEQUENCE OF 1-34 FROM N.A.
 RX MEDLINE=85130970; PubMed=2857713;
 RA Chu M.-L., de Wet W.J., Bernard M.P., Ramirez F.;
 RT "Fine structural analysis of the human pro-alpha 1 (I) collagen gene.
 RT Promoter structure, Alu repeats, and polymorphic transcripts.";
 RL J. Biol. Chem. 260:2315-2320(1985).
 RN [9]
 RP SEQUENCE OF 1-44 FROM N.A.
 RX MEDLINE=88033098; PubMed=2822714;
 RA Rossouw C.M.S., Verger W.P., du Plooy S.J., Bernard M.P., Ramirez F.,
 RA de Wet W.J.;
 RT "DNA sequences in the first intron of the human pro-alpha 1(I)
 RT collagen gene enhance transcription.";
 RL J. Biol. Chem. 262:15151-15157(1987).
 RN [10]
 RP REVIEW ON VARIANTS.
 RX MEDLINE=91184577; PubMed=2010058;
 RA Kulvanliem H., Tromp G., Prockop D.J.;
 RT "Mutations in fibrillar collagens (types I, II, III, and XI), fibril-
 RT associated collagen (type IX), and network-forming collagen (type X)
 RT cause a spectrum of diseases of bone, cartilage, and blood vessels.";
 RL Hum. Mutat. 9:300-315(1997).
 RN [12]

RP REVIEW ON OI VARIANTS.
 RX MEDLINE-91374476; PubMed-1895312;
 RA Byers P.H., Wallis G.A., Willing M.C.;
 RT "Osteogenesis imperfecta: translation of mutation to phenotype.";
 RL J. Med. Genet. 28:433-442(1991).
 RN [13]
 RP REVIEW ON OI VARIANTS.
 RX MEDLINE-97169389; PubMed-9016532;
 RA Dalgleish R.;
 RT "The human type I collagen mutation database.";
 RL Nucleic Acids Res. 25:181-187(1997).
 RN [14]
 RP VARIANT OI-II CYS-1166.
 RX MEDLINE-86287390; PubMed-3016737;
 RA Cohn D.H., Byers P.H., Steinmann B., Gellinas R.E.;
 RT "Lethal osteogenesis imperfecta resulting from a single nucleotide
 change in one human pro alpha 1(I) collagen allele.";
 RL Proc. Natl. Acad. Sci. U.S.A. 83:6045-6047(1986).
 RN [15]
 RP VARIANT OI-II ARG-569.
 RX MEDLINE-87222295; PubMed-3108247;
 RA Bateman J.F., Chan D., Walkers I.D., Rogers J.G., Cole W.G.;
 RT "Lethal perinatal osteogenesis imperfecta due to the substitution of
 arginine for glycine at residue 391 of the alpha 1(I) chain of type I
 collagen.";
 RL J. Biol. Chem. 263:7021-7027(1987).
 RN [16]
 RP VARIANT OI-II CYS-926.
 RX MEDLINE-88033031; PubMed-3667599;
 RA Vogel B.E., Minor R.R., Freund M., Prockop D.J.;
 RT "A point mutation in a type I procollagen gene converts glycine 748
 of the alpha 1 chain to cysteine and destabilizes the triple helix in
 a lethal variant of osteogenesis imperfecta.";
 RL J. Biol. Chem. 262:14737-14744(1987).
 RN [17]
 RP VARIANT OI-II ARG-842.
 RX MEDLINE-88298828; PubMed-3403550;
 RA Bateman J.F., Lamande S.R., Dahl H.H., Chan D., Cole W.G.;
 RT "Substitution of arginine for glycine 664 in the collagen alpha 1(I)
 chain in lethal perinatal osteogenesis imperfecta. Demonstration of
 the peptide defect by in vitro expression of the mutant cDNA.";
 RL J. Biol. Chem. 263:11627-11630(1988).
 RN [18]
 RP VARIANT OI CYS-1195.
 RX MEDLINE-89218628; PubMed-3244312;
 RA Labhard M.E., Wirtz M.K., Pope F.M., Nicholls A.C., Hollister D.W.;
 RT "A cysteine for glycine substitution at position 1017 in an alpha
 1(I) chain of type I collagen in a patient with mild dominantly
 inherited osteogenesis imperfecta.";
 RL Mol. Biol. Med. 5:197-207(1988).
 RN [19]
 RP VARIANT OI-II VAL-434.
 RX MEDLINE-89255493; PubMed-2470760;
 RA Patterson E., Smiley E., Bonadio J.;
 RT "RNA sequence analysis of a perinatal lethal osteogenesis imperfecta
 mutation.";
 RL J. Biol. Chem. 264:10083-10087(1989).
 RN [20]
 RP VARIANT OI-IV SER-1010.
 RX MEDLINE-89308591; PubMed-2745420;
 RA Martin J.C., Grange D.K., Gottesman G.S., Lewis M.B., Koepflin D.A.;
 RT "Osteogenesis imperfecta type IV. Detection of a point mutation in
 one alpha 1(I) collagen allele (COL1A1) by RNA/RNA hybrid analysis.";
 RL J. Biol. Chem. 264:11893-11900(1989).
 RN [21]
 RP VARIANTS OI-II ALA-1106; VAL-1151; ARG-1154 AND VAL-1184.
 RX MEDLINE-89380165; PubMed-2777764;
 RA Lamande S.R., Dahl H.H., Cole W.G., Bateman J.F.;
 RT "Characterization of point mutations in the collagen COL1A1 and
 COL1A2 genes causing lethal perinatal osteogenesis imperfecta.";
 RL J. Biol. Chem. 264:15809-15812(1989).
 RN [22]
 RP VARIANT OI SER-1022.

RX MEDLINE-90062066; PubMed-2511192;
 RA Pack M., Constantinou C.D., Kalia K., Nielsen K.B., Prockop D.J.;
 RT "Substitution of serine for alpha 1(I)-glycine 844 in a severe
 variant of osteogenesis imperfecta minimally destabilizes the triple
 helix of type I procollagen. The effects of glycine substitutions on
 thermal stability are either position of amino acid specific.";
 RL J. Biol. Chem. 264:119694-119699(1989).
 RN [23]
 RP VARIANT OI-II CYS-1082.
 RX MEDLINE-89109573; PubMed-2913053;
 RA Constantinou C.D., Nielsen K.B., Prockop D.J.;
 RT "A lethal variant of osteogenesis imperfecta has a single base
 mutation that substitutes cysteine for glycine 904 of the alpha 1(I)
 chain of type I procollagen. The asymptomatic mother has an
 unidentified mutation producing an overmodified and unstable type I
 procollagen.";
 RL J. Clin. Invest. 83:574-584(1989).
 RN [24]
 RP VARIANTS OI CYS-272; CYS-704 AND CYS-896.
 RX MEDLINE-90009313; PubMed-2794057;
 RA Starman B.J., Eyre D., Charbonneau H., Harrylock M., Weis M.A.;
 RT "Osteogenesis imperfecta. The position of substitution for glycine by
 cysteine in the triple helical domain of the pro alpha 1(I) chains of
 type I collagen determines the clinical phenotype.";
 RL J. Clin. Invest. 84:1206-1214(1989).
 RN [25]
 RP VARIANT OI-II CYS-422.
 Query Match 9.18; Score 118.5; DB 1; Length 1464;
 Best Local Similarity 36.38; Pred. No. 0.013;
 Matches 33; Conservative 2; Mismatches 23; Indels 33; Gaps 4;
 OY 3 PGSPAAAS--PQRRLGILLILLQLPPSSASEIPKGGKQKQLNGREYVDLYNMCUGPA 60
 DB 357 PGCPGSGEPGQGRG-----EPGPPG-----PAG-----AAGPA 385
 OY 61 GVPKRGSGPGANVPGPGIPGRDGRGKENG 91
 DB 386 GNPAGDQPGKANGKANGAPGAGAPGPGANG 416
 RESULT 3
 CAS4_CANFA STANDARD; PRT; 754 AA.
 ID CAS4_CANFA
 AC 028247;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Collagen alpha 5(IV) chain (Fragment).
 GN COL4A5.
 OS Canis familiaris (Dog).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
 OX NCBI_TaxID=9615;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN-Samoyed; TISSUE-Kidney;
 RX MEDLINE-94224868; PubMed-8171024;
 RA Zheng K., Thorner P.S., Marrano P., Bauman R., McInnes R.R.;
 RT "Canine X chromosome-linked hereditary nephritis: a genetic model for
 human X-linked hereditary nephritis resulting from a single base
 mutation in the gene encoding the alpha 5 chain of collagen type
 IV.";
 RL Proc. Natl. Acad. Sci. U.S.A. 91:3989-3993(1994).
 CC -I- FUNCTION: TYPE IV COLLAGEN IS THE MAJOR STRUCTURAL COMPONENT OF
 CC GLOMERULAR BASEMENT MEMBRANES (GBM), FORMING A 'CHICKEN-WIRE'
 CC MESHWORK TOGETHER WITH LAMININS, PROTOGLYCANS AND ENACTIN/
 CC NIDOGEN.
 CC -I- SUBUNIT: THERE ARE SIX TYPE IV COLLAGEN ISOFORMS, ALPHA 1(IV) -
 CC ALPHA 6(IV), EACH OF WHICH CAN FORM A TRIPLE HELIX STRUCTURE
 CC WITH 2 OTHER CHAINS TO GENERATE TYPE IV COLLAGEN NETWORK.
 CC -I- SUBCELLULAR LOCATION: CELL SURFACE (POTENTIAL).

CC -1- DOMAIN: ALPHA CHAINS OF TYPE IV COLLAGEN HAVE A NONCOLLAGENOUS
 CC DOMAIN (NC1) AT THEIR C-TERMINUS, FREQUENT INTERRUPTIONS OF THE
 CC G-X-Y REPEATS IN THE LONG CENTRAL TRIPLE-HELICAL DOMAIN (WHICH MAY
 CC CAUSE FLEXIBILITY IN THE TRIPLE HELIX), AND A SHORT N-TERMINAL
 CC TRIPLE-HELICAL 7S DOMAIN.
 CC -1- PTH: Prolines are hydroxylated in some or all of the chains.
 CC unit (G-X-Y) are hydroxylated in some or all of the chains.
 CC -1- PTH: Type IV collagens contain numerous cysteine residues which
 CC are involved in inter- and intramolecular disulfide bonding. 12 of
 CC these, located in the NC1 domain, are conserved in all known type
 CC IV collagens.
 CC -1- DISEASE: A DEFECT IN COL4A5 HAS BEEN FOUND TO BE THE CAUSE OF
 CC CANINE X-LINKED HEREDITARY NEPHRITIS (HN), A DISEASE SIMILAR TO
 CC THAT IN HUMANS (ALSO REFERRED TO AS ALPORT SYNDROME) CHARACTERIZED
 CC BY PROGRESSIVE RENAL FAILURE AND NEUROSENSORY DEAFNESS.
 CC -1- SIMILARITY: TO OTHER TYPE IV COLLAGENS.
 CC -----
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 CC -----
 CC EMBL: 007888; AAB60258.1; -
 CC PIR: A55267; A55267.
 CC DR InterPro: IPR000087; Collagen.
 CC DR InterPro: IPR001442; ProcollagenC4.
 CC DR Pfam: PF01413; C4; 2.
 CC DR Pfam: PF01391; Collagen; 8.
 CC DR ProDom: PD000007; C1q_helix; 1.
 CC DR ProDom: PD003923; ProcollagenC4; 1.
 CC DR SMART: SM0011; C4; 2.
 CC DR Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
 CC KW Glycoprotein; Basement membrane; Collagen; Cell adhesion.
 CC FT NON_TER 1 1
 CC FT DOMAIN <1 530 TRIPLE-HELICAL REGION
 CC FT 531 >754 NONHELICAL REGION (NC1).
 CC FT DISULFID 552 643 OR 640 (BY SIMILARITY).
 CC FT DISULFID 585 640 OR 643 (BY SIMILARITY).
 CC FT DISULFID 597 603 BY SIMILARITY.
 CC FT DISULFID 662 ? OR 754 (BY SIMILARITY).
 CC FT DISULFID 696 754 BY SIMILARITY.
 CC FT DISULFID 708 714 BY SIMILARITY.
 CC FT NON_TER 754 754
 CC SQ SEQUENCE 754 AA; 73537 MW; D5E321C287FA925B CRC64;
 CC Query Match 9.0%; Score 117; DB 1; Length 754;
 CC Best Local Similarity 34.4%; Pred. No. 0.0084;
 CC Matches 33; Conservative 7; Mismatches 34; Indels 22; Gaps 4;
 CC
 CC QY 3 PGCPAASQRLRLGLLLLLLPAPSSASEIP-----KGQ--KAQLNREYVDLYNGMC 55
 CC DB 332 PGCPGGRP-----GLPGEGPGRGLPGNGIGKGERNGPQGPQGLPGKGD-- 377
 CC QY 56 LOGPAGVRGDSGPGANYPGPGIGRGRDGRGEGG 91
 CC DB 378 -QGPPGIQGNPGRPELNGMKDGLGVPGEFGMGK 412
 CC
 CC RESULT 4
 CC CA34_HUMAN STANDARD; PRT; 1670 AA.
 CC AC 001955; G9B072;
 CC DT 01-OCT-1996 (Rel. 34, Created)
 CC DT 15-JUL-1999 (Rel. 38, Last sequence update)
 CC DT 15-SEP-2003 (Rel. 42, Last annotation update)
 CC DE Collagen alpha 3(IV) chain precursor (Goodpasture antigen).
 CC GN COL4A3.
 CC OS Homo sapiens (Human).
 CC OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

OX NCBI_TaxID=9606;
 RN [1]
 RN SEQUENCE FROM N.A.
 RC TISSUE=Kidney;
 RX MEDLINE=94364994; PubMed=8083201;
 RA Mariyama M., Leinonen A., Mochizuki T., Tryggvason K., Reiders S.T.;
 RT "Complete primary structure of the human alpha 3(IV) collagen chain.
 RT Coexpression of the alpha 3(IV) and alpha 4(IV) collagen chains in
 RT human tissues.";
 RL J. Biol. Chem. 269:23013-23017(1994).
 RN [2]
 RN REVISIONS.
 RA Leinonen A.;
 RL Submitted (OCT-1998) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RN SEQUENCE FROM N.A., VARIANTS AS GLU-297; ARG-407; ARG-640; ARG-1167;
 RP GLU-1207; GLN-1215; SER-1277; THR-1330; GLU-1334; GLU-1347 AND
 RP CYS-1661, AND VARIANTS ARG-43; GLU-162; TYR-326; HIS-408; ARG-451;
 RP PRO-574; GLU-1269 AND PRO-1474.
 RX MEDLINE=21064696; PubMed=11134255;
 RA Heidet L., Arrondel C., Forestier L., Cohen-Solal L., Mollet G.,
 RA Gutierrez B., Stavrou C., Gubler M.C., Antignac C.;
 RT "Structure of the human type IV collagen gene COL4A3 and mutations in
 RT autosomal Alport syndrome";
 RL J. Am. Soc. Nephrol. 12:97-106(2001).
 RN [4]
 RN SEQUENCE OF 1386-1670 FROM N.A., AND PARTIAL SEQUENCE.
 RX MEDLINE=93015826; PubMed=1400291;
 RA Quinones S., Bernal D., Garcia-Sogo M., Elena S.F., Saus J.;
 RT "Exon/intron structure of the human alpha 3(IV) gene encompassing the
 RT Goodpasture antigen (alpha 3(IV)NC1). Identification of a potentially
 RT antigenic region at the triple helix/NC1 domain junction.";
 RL J. Biol. Chem. 267:19780-19784(1992).
 RN [5]
 RN SEQUENCE OF 1453-1670 FROM N.A.
 RX MEDLINE=91353570; PubMed=1882840;
 RA Morrison K.E., Mariyama M., Yang-Feng T.L., Reiders S.T.;
 RT "Sequence and localization of a partial cDNA encoding the human alpha
 RT 3 chain of type IV collagen.";
 RL Am. J. Hum. Genet. 49:545-554(1991).
 RN [6]
 RN SEQUENCE OF 1331-1670 FROM N.A.
 RC TISSUE=Kidney;
 RX MEDLINE=92447878; PubMed=1737849;
 RA Turner N., Mason P.D., Brown R., Fox M., Povey S., Rees A.,
 RA Pusey C.D.;
 RT "Molecular cloning of the human Goodpasture antigen demonstrates it
 RT to be the alpha 3 chain of type IV collagen.";
 RL J. Clin. Invest. 89:592-601(1992).
 RN [7]
 RN SEQUENCE OF 1644-1670 FROM N.A.
 RC TISSUE=Kidney;
 RA Ding J.;
 RL Submitted (JAN-1993) to the EMBL/GenBank/DBJ databases.
 RN [8]
 RN SEQUENCE OF 1439-1670, AND ALTERNATIVE SPLICING.
 RC TISSUE=Kidney;
 RX MEDLINE=94124597; PubMed=8294492;
 RA Feng L., Xia Y., Wilson C.B.;
 RT "Alternative splicing of the NC1 domain of the human alpha 3(IV)
 RT collagen gene. Differential expression of mRNA transcripts that
 RT predict three protein variants with distinct carboxyl regions.";
 RL J. Biol. Chem. 269:2342-2348(1994).
 RN [9]
 RN SEQUENCE OF 1-29 FROM N.A.
 RX MEDLINE=98196854; PubMed=9537506;
 RA Momota R., Sugimoto M., Ohashi T., Kigasawa K., Yoshioke H.,
 RA Nimomiya Y.;
 RT "Two genes, COL4A3 and COL4A4 coding for the human alpha3(IV) and
 RT alpha4(IV) collagen chains are arranged head-to-head on chromosome
 RT 2q36.";
 RL FEBS Lett. 424:11-16(1998).
 RN [10]

RP ALTERNATIVE SPLICING.
 RX MEDLINE-93280184; PubMed-8505332;
 RA Bernal D., Quiñones S., Saus J.;
 RT "The human mRNA encoding the Goodpasture antigen is alternatively
 RT spliced";
 RL J Biol. Chem. 268:12090-12094(1993).
 RN [11]
 RP VARIANT PRO-1474.
 RX MEDLINE-95078827; PubMed-7987301;
 RA Lemmink H.H., Mochizuki T., van den Heuvel L.P.W.J., Schroeder C.H.,
 RA Barrientos A., Monens H.A.H., van Oost B.A., Brunner H.G.,
 RA Reeders S.T., Smeets H.J.M.;
 RT "Mutations in the type IV collagen alpha 3 (COL4A3) gene in autosomal
 RT recessive Alport syndrome";
 RL Hum. Mol. Genet. 3:1269-1273(1994).
 CC -1- FUNCTION: TYPE IV COLLAGEN IS THE MAJOR STRUCTURAL COMPONENT OF
 CC GLomerular basement membranes (GBM), FORMING A 'CHICKEN-WIRE'
 CC MESHWORK TOGETHER WITH LAMININS, PROTEGLYCANS AND ENTRACTIN/
 CC NIDOGN.
 CC -1- SUBUNIT: THERE ARE SIX TYPE IV COLLAGEN ISOFORMS, ALPHA 1(IV)-
 CC ALPHA 6(IV), EACH OF WHICH CAN FORM A TRIPLE HELIX STRUCTURE WITH
 CC 2 OTHER CHAINS TO GENERATE TYPE IV COLLAGEN NETWORK.
 CC -1- SUBCELLULAR LOCATION: CELL SURFACE (POTENTIAL).
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms-3;
 CC Comment-Additional isoforms seem to exist. Isoforms differ in
 CC the C-terminal part of the NCI domain;
 CC Name-1;
 CC IsoId=001955-1; Sequence-Displayed;
 CC Name-2; Synonyms-V;
 CC IsoId=001955-2; Sequence-VSP_001170;
 CC Name-3; Synonyms-LS;
 CC IsoId=001955-3; Sequence-VSP_001171;
 CC -1- TISSUE SPECIFICITY: ALPHA 3 AND ALPHA 4 TYPE IV COLLAGENS ARE
 CC COLLOCALIZED AND PRESENT ONLY IN BASEMENT MEMBRANES OF KIDNEY, EYE,
 CC COCHLEA, LUNG AND BRAIN.
 CC -1- DOMAIN: ALPHA CHAINS OF TYPE IV COLLAGEN HAVE A NONCOLLAGENOUS
 CC DOMAIN (NCI) AT THEIR C-TERMINUS, FREQUENT INTERRUPTIONS OF THE
 CC G-X-Y REPEATS IN THE LONG CENTRAL, TRIPLE-HELICAL DOMAIN (WHICH MAY
 CC CAUSE FLEXIBILITY IN THE TRIPLE HELIX), AND A SHORT N-TERMINAL
 CC TRIPLE-HELICAL 7S DOMAIN.
 CC -1- PTM: Prolines at the third position of the tripeptide repeating
 CC unit (G-X-Y) are hydroxylated in some or all of the chains.
 CC -1- PTM: Isoform 2 contains an additional N-linked glycosylation site.
 CC -1- PTM: Type IV collagens contain numerous cysteine residues which
 CC are involved in inter- and intramolecular disulfide bonding. 12 of
 CC these, located in the NCI domain, are conserved in all known type
 CC IV collagens.
 CC -1- PTM: Phosphorylated by the Goodpasture antigen-binding protein.
 CC -1- DISEASE: Antibodies against the NCI domain of alpha3(IV) mediate
 CC the autoimmune disease Goodpasture syndrome (MIM:233450), which is
 CC characterized by hematuria and pulmonary hemorrhage.
 CC -1- DISEASE: Defects in COL4A3 are a cause of autosomal recessive
 CC Alport syndrome (AS) (MIM:203780), an hereditary disorder
 CC characterized by progressive glomerulonephritis, renal failure,
 CC hematuria, ocular abnormalities and deafness. The recessive form
 CC occurs equally between males and females.
 CC -----
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 CC -----
 DR EMBL; X80031; CA56335.1; -;
 DR EMBL; AJ288487; CAC36101.1; -;
 DR EMBL; AJ288488; CAC36101.1; JOINED.
 DR EMBL; AJ288489; CAC36101.1; JOINED.
 DR EMBL; AJ288490; CAC36101.1; JOINED.
 DR EMBL; AJ288491; CAC36101.1; JOINED.
 DR EMBL; AJ288492; CAC36101.1; JOINED.

DR EMBL; AJ288493; CAC36101.1; JOINED.
 DR EMBL; AJ288494; CAC36101.1; JOINED.
 DR EMBL; AJ288495; CAC36101.1; JOINED.
 DR EMBL; AJ288496; CAC36101.1; JOINED.
 DR EMBL; AJ288497; CAC36101.1; JOINED.
 DR EMBL; AJ288498; CAC36101.1; JOINED.
 DR EMBL; AJ288499; CAC36101.1; JOINED.
 DR EMBL; AJ288500; CAC36101.1; JOINED.
 DR EMBL; AJ288501; CAC36101.1; JOINED.
 DR EMBL; AJ288502; CAC36101.1; JOINED.
 DR EMBL; AJ288503; CAC36101.1; JOINED.
 DR EMBL; AJ288504; CAC36101.1; JOINED.
 DR EMBL; AJ288505; CAC36101.1; JOINED.
 DR EMBL; AJ288506; CAC36101.1; JOINED.
 DR EMBL; AJ288507; CAC36101.1; JOINED.
 DR EMBL; AJ288508; CAC36101.1; JOINED.
 DR EMBL; AJ288509; CAC36101.1; JOINED.
 DR EMBL; AJ288510; CAC36101.1; JOINED.
 DR EMBL; AJ288511; CAC36101.1; JOINED.
 DR EMBL; AJ288512; CAC36101.1; JOINED.
 DR EMBL; AJ288513; CAC36101.1; JOINED.
 DR EMBL; AJ288514; CAC36101.1; JOINED.
 DR EMBL; AJ288515; CAC36101.1; JOINED.
 DR EMBL; AJ288516; CAC36101.1; JOINED.
 DR EMBL; AJ288517; CAC36101.1; JOINED.
 DR EMBL; AJ288518; CAC36101.1; JOINED.
 DR EMBL; AJ288519; CAC36101.1; JOINED.
 DR EMBL; AJ288520; CAC36101.1; JOINED.
 DR EMBL; AJ288521; CAC36101.1; JOINED.
 DR EMBL; AJ288522; CAC36101.1; JOINED.
 DR EMBL; AJ288523; CAC36101.1; JOINED.
 DR EMBL; AJ288524; CAC36101.1; JOINED.
 DR EMBL; AJ288525; CAC36101.1; JOINED.
 DR EMBL; AJ288526; CAC36101.1; JOINED.
 DR EMBL; AJ288527; CAC36101.1; JOINED.
 DR EMBL; AJ288528; CAC36101.1; JOINED.
 DR EMBL; AJ288529; CAC36101.1; JOINED.
 DR EMBL; AJ288530; CAC36101.1; JOINED.
 DR EMBL; AJ288531; CAC36101.1; JOINED.
 DR EMBL; AJ288532; CAC36101.1; JOINED.
 DR EMBL; AJ288533; CAC36101.1; JOINED.
 DR EMBL; AJ288534; CAC36101.1; JOINED.
 DR EMBL; AJ288535; CAC36101.1; JOINED.
 DR EMBL; AJ288536; CAC36101.1; JOINED.

Query Match 8.9%; Score 116; DR 1; Length 1670;
 Best Local Similarity 35.18; Pred. No. 0.026;
 Matches 33; Conservative 6; Mismatches 37; Indels 18; Gaps 3;

QY 5 GPASPORTLRGLLLLLLPAPSSASEIPKQKQALROREVVVDLYNGMCIQSPAGVPG 64
 Db 467 GKPEP-----GILTCQCPYIPGPGLGRLHGVKGIKPR-----GQAAGLKG 511
 QY 65 RDGSPGANVTPGPIGPRD---GFKGEKGECLR 95
 Db 512 SPGSPGNTGLPFGFPFGAGDPGLKGEKGETLQ 545

RESULT 5
 CA54_HUMAN STANDARD; PRT; 1685 AA.
 AC P29400; Q16006; Q16126;
 DT 01-DEC-1992 (Rel. 24, Created)
 DT 01-FEB-1994 (Rel. 28, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Collagen alpha 5(IV) chain precursor.
 GN COL4A5.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.

RX MEDLINE-94165049; PubMed-8120014;
 RA Zhou J., Leinonen A., Tryggvason K.;
 RT "Structure of the human type IV collagen COL4A5 gene.";
 RL J. Biol. Chem. 269:6608-6614(1994).
 RN [2]
 RP SEQUENCE OF 1-910 FROM N.A., AND VARIANT AS CYS-521.
 RC TISSUE=Kidney;
 RX MEDLINE-92316923; PubMed-1352287;
 RA Zhou J., Hertz J.M., Leinonen A., Tryggvason K.;
 RT "Complete amino acid sequence of the human alpha 5 (IV) collagen
 chain and identification of a single-base mutation in exon 23
 converting glycine 521 in the collagenous domain to cysteine in an
 Alport syndrome patient.";
 RL J. Biol. Chem. 267:12475-12481(1992).
 RN [3]
 RP SEQUENCE OF 85-1685 FROM N.A.
 RC TISSUE=Placenta;
 RX MEDLINE-90337990; PubMed-2380186;
 RA Phlajaniemi T., Pohjolainen E.R., Myers J.C.;
 RT "Complete primary structure of the triple-helical region and the
 carboxyl-terminal domain of a new type IV collagen chain, alpha
 5(IV).";
 RL J. Biol. Chem. 265:13758-13766(1990).
 RN [4]
 RP SEQUENCE OF 924-1685 FROM N.A.
 RX MEDLINE-91169491; PubMed-2004755;
 RA Zhou J., Hostikka S.L., Chow L.T., Tryggvason K.;
 RT "Characterization of the 3' half of the human type IV collagen alpha
 5 gene that is affected in the Alport syndrome.";
 RL Genomics 9:1-9(1991).
 RN [5]
 RP SEQUENCE OF 914-1685 FROM N.A.
 RX MEDLINE-90160375; PubMed-1689491;
 RA Hostikka S.L., Eddy R.L., Byers M.G., Hoehlytae M., Shows T.B.,
 RA Tryggvason K.;
 RT "Identification of a distinct type IV collagen alpha chain with
 restricted kidney distribution and assignment of its gene to the
 locus of X chromosome-linked Alport syndrome.";
 RL Proc. Natl. Acad. Sci. U.S.A. 87:1606-1610(1990).
 RN [6]
 RP SEQUENCE OF 1442-1471 FROM N.A.
 RX MEDLINE-90252791; PubMed-2339699;
 RA Myers J.C., Jones T.A., Pohjolainen E.R., Kadri A.S., Goddard A.D.,
 RA Sheer D., Solomon E., Phlajaniemi T.;
 RT "Molecular cloning of alpha 5(IV) collagen and assignment of the gene
 to the region of the X chromosome containing the Alport syndrome
 locus.";
 RL Am. J. Hum. Genet. 46:1024-1033(1990).
 RN [7]
 RP SEQUENCE OF 1-20 FROM N.A.
 RA Guo C., van Damme B., Vanrenterghem Y., Devriendt K., Cassiman J.-J.,
 RA Marynen P.;
 RL Submitted (SEP-1994) to the EMBL/GenBank/DBJ databases.
 RN [8]
 RP SEQUENCE OF 1258-1270 FROM N.A. (ISOFORM 2).
 RX MEDLINE-94133540; PubMed-8301933;
 RA Guo C., van Damme B., van Damme-Lombaerts R., van den Berghe H.,
 RA Cassiman J.-J., Marynen P.;
 RT "Differential splicing of COL4A5 mRNA in kidney and white blood
 cells: a complex mutation in the COL4A5 gene of an Alport patient
 deletes the NCI domain.";
 RL Kidney Int. 44:1316-1321(1993).
 RN [9]
 RP REVIEW ON VARIANTS.
 RX MEDLINE-97338662; PubMed-9195222;
 RA Lemmink H.H., Schroeder C.H., Monnens L.A.H., Smeets H.J.M.;
 RT "The clinical spectrum of type IV collagen mutations.";
 RL Hum. Mutat. 9:477-499(1997).
 RN [10]
 RP VARIANT AS SER-1564.
 RX MEDLINE-91169492; PubMed-1672282;
 RA Zhou J., Barker D.F., Hostikka S.L., Gregory M.C., Atkin C.L.,
 RA Tryggvason K.;

RT "Single base mutation in alpha 5(IV) collagen chain gene converting a
 conserved cysteine to serine in Alport syndrome.";
 RL Genomics 9:10-18(1991).
 RN [11]
 RP VARIANT AS ARG-325.
 RX MEDLINE-92303559; PubMed-1376965;
 RA Knebelmann B., Deschenes G., Gros F., Hors M.-C., Gruenfeld J.-P.,
 RA Tryggvason K., Gubler M.-C., Antignac C.;
 RT "Substitution of arginine for glycine 325 in the collagen alpha 5
 (IV) chain associated with X-linked Alport syndrome: characterization
 of the mutation by direct sequencing of PCR-amplified lymphoblast
 cell DNA fragments.";
 RL Am. J. Hum. Genet. 51:135-142(1992).
 RN [12]
 RP VARIANT AS GLU-325.
 RX MEDLINE-93244772; PubMed-1363780;
 RA Renieri A., Seri M., Myers J.C., Phlajaniemi T., Massella L.,
 RA Rizzoni G.F., de Marchi M.;
 RT "De novo mutation in the COL4A5 gene converting glycine 325 to
 glutamic acid in Alport syndrome.";
 RL Hum. Mol. Genet. 1:127-129(1992).
 RN [13]
 RP VARIANTS AS THR-1517; SER-1538 AND GLN-1563.
 RX MEDLINE-94010948; PubMed-8406498;
 RA Lemmink H.H., Schroeder C.H., Brunner H.G., Nelen M.R., Zhou J.,
 RA Tryggvason K., Haggma-Schouten W.A.G., Rodvoets A.P., Rascher W.,
 RA van Oost B.A., Smeets H.J.M.;
 RT "Identification of four novel mutations in the COL4A5 gene of
 patients with Alport syndrome.";
 RL Genomics 17:485-489(1993).
 RN [14]
 RP VARIANTS AS GLU-400; VAL-406; VAL-638; ALA-638; ARG-653; ARG-796;
 RP ARG-869; ARG-872 AND CYS-1241.
 RX MEDLINE-95322976; PubMed-7599631;
 RA Boye E., Rintler F., Zhou J., Tryggvason K., Bobrow M., Harris A.;
 RT "Detection of 12 novel mutations in the collagenous domain of the
 COL4A5 gene in Alport syndrome patients.";
 RL Hum. Mutat. 5:197-204(1995).
 RN [15]
 RP VARIANT AS ARG-1649.
 RX MEDLINE-96213750; PubMed-8651292;
 RA Barker D.F., Pruchno C.J., Jiang X., Atkin C.L., Stone E.M.,
 RA Denison J.C., Fain P.R., Gregory M.C.;
 RT "A mutation causing Alport syndrome with tardive hearing loss is
 common in the western United States.";
 RL Am. J. Hum. Genet. 58:1157-1165(1996).
 RN [16]
 RP VARIANTS AS:
 RX MEDLINE-96213754; PubMed-8651296;
 RA Renieri A., Brutti M., Galli L., Zanelli P., Neri T.M., Rossetti S.,
 RA Turco A.E., Helskari N., Zhou J., Gusmano R., Massella L., Banfi G.,
 RA Scolari F., Sessa A., Rizzoni G.F., Tryggvason K., Pignatelli P.F.,
 RA Savi M., Ballabio A., de Marchi M.;
 RT "X-linked Alport syndrome: an SSCP-based mutation survey over all 51
 exons of the COL4A5 gene.";
 RL Am. J. Hum. Genet. 58:1192-1204(1996).
 RN [17]
 RP VARIANTS AS, AND VARIANTS ASP-430; SER-444; SER-619; ASN-664 AND
 RP MET-1428.
 RX MEDLINE-97094179; PubMed-8940267;
 RA Knebelmann B., Brelliat C., Forestier L., Arrondel C., Jaccastier D.,
 RA Glabas I., Drouot L., Deschenes G., Gruenfeld J.-P., Broyer M.,
 RA Gubler M.-C., Antignac C.;
 RT "Spectrum of mutations in the COL4A5 collagen gene in X-linked Alport
 syndrome.";
 RL Am. J. Hum. Genet. 59:1221-1232(1996).
 RN [18]
 RP VARIANT AS ASP-1498.
 RX MEDLINE-96233932; PubMed-8829632;
 RA Tverskaya S., Bobrygina V., Tsalykova F., Ignatova M.,
 RA Krasnopol'skaya X., Evgrafov O.;
 RT "Substitution of Ala98D in noncollagen domain of alpha 5(IV) collagen
 chain associated with adult-onset X-linked Alport syndrome.";

RL Hum. Mutat. 7:149-150(1996).
 RN [19]
 RP VARIANT AS GLN-1677.
 RX MEDLINE-97295089; PubMed-9150741;
 RA Barker D.F., Denison J.C., Atkin C.L., Gregory M.C.;
 RT "Common ancestry of three Ashkenazi-American families with Alport
 syndrome and COL4A5 R1677Q.";
 RL Hum. Genet. 99:681-684(1997).
 RN [20]
 RP VARIANTS AS ARG-174; ARG-177; ARG-325; CYS-1410; TRP-1421; THR-1517
 RP AND ASP-1596.
 RX MEDLINE-98112435; PubMed-9452056;
 RA Neri T.M., Zanelli P., de Palma G., Savi M., Rossetti S., Turco A.E.,
 RA Pignatelli G.F., Galli L., Brutti M., Renieri A., Mingarelli R.,
 RA Trivelli A., Pinciaroli A.R., Ragalolo M., Rizzoni G.F., de Marchi M.;
 RT "Missense mutations in the COL4A5 gene in patients with X-linked
 Alport syndrome.";
 RL Hum. Mutat. Suppl. 1:S106-S109(1998).
 RN [21]
 RP VARIANTS AS VAL-420; 456-PRO--PRO-458 DEL; ASP-573; ASP-624; ASP-635;
 RP 802-GLY--PRO-807 DEL; ARG-869; CYS-941; SER-1030; SER-1066; ASP-1143;
 RP ARG-1196; GLU-1261; SER-1357 AND ARG-1649.
 RX MEDLINE-99063529; PubMed-9848783;
 RA Martin P., Heiskari N., Zhou J., Leinonen A., Tuomelius T., Hertz J.M.,
 RA Barker D.F., Gregory M.C., Atkin C.L., Strykarsdottir U., Neumann H.,
 RA Sprigante J., Shows T.B., Pettersson E., Tryggvason K.;
 RT "High mutation detection rate in the COL4A5 collagen gene in suspected
 Alport syndrome using PCR and direct DNA sequencing.";
 RL J. Am. Soc. Nephrol. 9:2291-2301(1998).
 RN [22]
 RP VARIANTS AS GLU-579; LYS-633; ASP-947; VAL-953; ARG-1107; ARG-1158;
 RP SER-1170 AND TRP-1678, AND VARIANTS SER-444 AND ALA-739.
 RX MEDLINE-20030197; PubMed-10561141;
 RA Inoue Y., Nishio H., Shirakawa T., Nakanishi K., Nakamura H.,
 RA Sumino K., Nishiyama K., Iijima K., Yoshikawa N.;
 RT "Detection of mutations in the COL4A5 gene in over 90% of male
 patients with X-linked Alport's syndrome by RT-PCR and direct
 sequencing.";
 RL Am. J. Kidney Dis. 34:854-862(1999).
 RN [23]
 RP VARIANT AS ARG-822.
 Query Match 8.9%; Score 116; DB 1; Length 1685;
 Best Local Similarity 35.1%; Pred. No. 0.027;
 Matches 33; Conservative 6; Mismatches 37; Indels 18; Gaps 3;
 QY 3 PGSPASPORTLRGILLILLQLPAPSSASEIR-----KGRKQALRQREVVDYNGMCIQ 57
 DB 1256 PGSPPRP-----GLRPGEPPLPFGNGIKG-EKGNPQPGILPLGLKGDQ 1302
 QY 58 GPAGVPGRDGSPGANVPGTPGIPGRDGFKEGKG 91
 DB 1303 GPPGLQGNPGRPLNGMKDPLPGVGPFGMKG 1336
 RESULT 6
 COT7_HUMAN STANDARD; PRT; 289 AA.
 ID 09BXJ2;
 AC 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DE 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Complement-c1q tumor necrosis factor-related protein 7 precursor.
 GN C1QTNF7 OR CTRP7.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Piddington C.S., Sheppard P.O., Bishop P., Lasser G.W.;
 RT "Homo sapiens complement-c1q tumor necrosis factor-related protein.";
 RL Submitted (DEC-2000) to the EMBL/GenBank/DBJ databases.

RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE-Testis;
 RX MEDLINE-22388257; PubMed-12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusik K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Bha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mulhally S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Huiyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butlerfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 CC -1 SIMILARITY: Contains 1 collagenous domain.
 CC -1 SIMILARITY: Contains 1 C1Q domain.
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 or send an email to license@sib-sib.ch).
 CC -----
 DR EMBL: AF329839; AK17963.1; -;
 DR EMBL: BC022187; AAH22187.1; -;
 DR Genew: HGNC:14342; C1QTNF7.
 DR InterPro: IPR001073; C1Q.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF00386; C1q; 1.
 DR Pfam: PF01391; Collagen; 2.
 DR PRINTS: PR00007; COMPLEMENTC1Q.
 DR SMART: SM00110; C1Q; 1.
 DR PROSITE: PS01113; C1Q; 1.
 KW Collagen; Signal.
 FT SIGNAL 1 16
 FT CHAIN 17 289
 FT DOMAIN 38 139
 FT DOMAIN 141 276
 FT DOMAIN 141 276
 SQ SEQUENCE 289 AA; 30683 MW; A61609PF86D26946 CRC64;
 Query Match 8.9%; Score 115.5; DB 1; Length 289;
 Best Local Similarity 46.3%; Pred. No. 0.0037;
 Matches 31; Conservative 5; Mismatches 22; Indels 9; Gaps 3;
 QY 30 ASEIPKGRKQAKQALRQREVVDYNGMC-----LQSPAGVPGRDGSPGANVPGTPGIPGRDG 85
 DB 14 ASGQPRN---QLKGENYSPRY--ICSTPLPDPGPPGANGSPGPHRIGLPGRDG 68
 QY 86 FKKEGKE 92
 DB 69 RKKEGKE 75
 RESULT 7
 CAH1_HUMAN STANDARD; PRT; 1516 AA.
 ID CAH1_HUMAN
 AC P39060; O9UK38; O9Y607; O9Y608;
 DT 01-FEB-1995 (Rel. 31, Created)
 DT 15-OCT-2001 (Rel. 40, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)

DE Collagen alpha 1(XVIII) chain precursor [Contains: Endostatin].
 GN COL18A1.
 OS Homo sapiens (Human).
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=98164096; PubMed=9503365;
 RA Saarela J., Ylikarppa R., Rehn M., Purmonen S., Pihlajaniemi T.;
 RT "Complete primary structure of two variant forms of human type XVIII
 RT collagen and tissue-specific differences in the expression of the
 RT corresponding transcripts".
 RL Matrix Biol. 16:319-328(1998).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=20289799; PubMed=10830953;
 RA Hattori M., Fujiyama A., Taylor T.D., Matanabe H., Yada T.,
 RA Park H.-S., Toyoda A., Ishii K., Totoki Y., Choi D.-K., Groner Y.,
 RA Soeda E., Ohki M., Takagi T., Sakaki Y., Taudien S., Blechschmidt K.,
 RA Folleard A., Menzel U., Delabar J., Kumpf K., Lehmann R., Patterson D.,
 RA Reichwald K., Rump A., Schillhabel M., Schudy A., Zimmermann W.,
 RA Rosenthal A., Kudoh J., Shibuya K., Kawasaki K., Asakawa S.,
 RA Shintani A., Sasaki T., Nagamine K., Mitsuyma S., Antonarakis S.E.,
 RA Minoshima S., Shimizu N., Nordtek G., Hornischer K., Brandt P.,
 RA Scharfe M., Schoen O., Desario A., Reichelt J., Kauer G., Bloecher H.,
 RA Ramer J., Beck A., Klages S., Hennig S., Resselmann L., Dagand E.,
 RA Weinmeyer S., Borzym K., Gardiner K., Nitzel D., Francis F.,
 RA Lehnach H., Reinhardt R., Yaspo M.-L.;
 RT "The DNA sequence of human chromosome 21.";
 RL Nature 405:311-319(2000).
 RN [3]
 RP SEQUENCE OF 834-1516 FROM N.A.
 RX MEDLINE=94245237; PubMed=8188291;
 RA Oh S.P., Warman M.L., Seldin M.F., Cheng S., Knoll J.H., Timmons S.,
 RA Olsen B.R.;
 RT "Cloning of cDNA and genomic DNA encoding human type XVIII collagen
 RT and localization of the alpha 1(XVIII) collagen gene to mouse
 RT chromosome 10 and human chromosome 21.";
 RL Genomics 19:494-499(1994).
 RN [4]
 RP SEQUENCE OF 1334-1516 FROM N.A.
 RX TISSUE-Placenta;
 RA Zhi-Yong H., Biao L., Wei-Jie Z., Xiang-Pu W.;
 RT "Cloning and expression of human endostatin gene in Escherichia
 RT coli.";
 RL Submitted (SEP-1999) to the EMBL/GenBank/DBJ databases.
 RN [5]
 RP INVOLVEMENT IN KNOBLOCH SYNDROME.
 RX MEDLINE=20400145; PubMed=10942434;
 RA Sertie A.L., Sossi V., Camargo A.A., Zatz M., Brahe C.,
 RA Passos-Bueno M.R.;
 RT "Collagen XVIII, containing an endogenous inhibitor of angiogenesis
 RT and tumor growth, plays a critical role in the maintenance of retinal
 RT structure and in neural tube closure.";
 RL Hum. Mol. Genet. 9:2051-2058(2000).
 RN [6]
 RP VARIANT ASN-1437.
 RX MEDLINE=21518361; PubMed=11606364;
 RA Iugnetti P., Suzuki O., Godol P.H., Alves V.A., Sertie A.L.,
 RA Zorick T., Soares F., Camargo A., Moreira E.S., di Loreto C.,
 RA Moreira-Filho C.A., Simpson A., Oliva G., Passos-Bueno M.R.;
 RT "A polymorphism in endostatin, an angiogenesis inhibitor, predisposes
 RT for the development of prostatic adenocarcinoma.";
 RL Cancer Res. 61:7375-7378(2001).
 CC -1- FUNCTION: COL18A1 PROBABLY PLAYS A MAJOR ROLE IN DETERMINING THE
 CC RETINAL STRUCTURE AS WELL AS IN THE CLOSURE OF THE NEURAL TUBE.
 CC -1- FUNCTION: ENDOSTATIN POTENTIALLY INHIBITS ENDOTHELIAL CELL
 CC PROLIFERATION AND ANGIOGENESIS. MAY INHIBIT ANGIOGENESIS BY
 CC BINDING TO THE HEPARAN SULPHATE PROTEOGLYCAN INVOLVED IN GROWTH
 CC FACTOR SIGNALING.
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms=2;

CC Name=Long; Synonyms=NC-493;
 CC IsoId=P39060-1; Sequence=Displayed;
 CC Name=Short; Synonyms=NC1-303;
 CC IsoId=P39060-2; Sequence=VSP_001155, VSP_001156;
 CC TISSUE SPECIFICITY: PRESENT IN MULTIPLE ORGANS WITH HIGHEST LEVELS
 CC IN LIVER, LUNG AND KIDNEY.
 CC -1- PTM: Prolines at the third position of the tripeptide repeating
 CC unit (G-X-Y) are hydroxylated in some or all of the chains.
 CC -1- POLYMORPHISM: There is an association between a polymorphism in
 CC position 1437 and prostate cancer. Heterozygous Asn-1437
 CC individuals have a 2.5 times increased chance of developing
 CC prostate cancer as compared with homozygous Asp-1437 individuals.
 CC -1- DISEASE: Defects in COL18A1 are a cause of Knobloch syndrome (KNO)
 CC [MIM:267750]; an autosomal recessive disorder defined by the
 CC occurrence of high myopia, vitreoretinal degeneration with retinal
 CC detachment, macular abnormalities and occipital encephalocele.
 CC -1- SIMILARITY: BELONGS TO THE FIBRIL-ASSOCIATED COLLAGENS WITH
 CC INTERRUPTED HELICES (FACIT) FAMILY.
 CC -----
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 CC or send an email to license@sdb-sdb.ch).
 CC -----
 CC EMBL; AF018081; AAC39658.1; -
 CC EMBL; AF018082; AAC39659.1; -
 CC EMBL; AL163302; CAB90482.1; -
 CC EMBL; L22548; AAS1864.1; -
 CC EMBL; AF184060; AAF01310.1; ALT_INIT.
 CC PDB; 1BNL; 02-DEC-98.
 CC GlycoSiteDB; P39060;
 CC GeneW; HGNC:2195; COL18A1.
 CC MIM; 120328; -
 CC MIM; 267750; -
 CC GO; GO:0005581; C:collagen; TAS.
 CC GO; GO:0006181; F:tumor suppressor; TAS.
 CC GO; GO:0007397; P:histogenesis and organogenesis; TAS.
 CC GO; GO:0008285; P:negative regulation of cell proliferation; TAS.
 CC GO; GO:0007048; P:oncogenesis; TAS.
 CC GO; GO:0007601; P:vision; TAS.
 CC InterPro; IPR000087; Collagen.
 CC InterPro; IPR00191; Lamln1n_g.
 CC InterPro; IPR003129; TSPN.
 CC Pfam; PF01391; Collagen; 7.
 CC Pfam; PF02210; TSPN; 1.
 CC ProDom; PPO00007; Ctg_helix; 1.
 CC SMART; SM00282; Lmcg; 1.
 CC SMART; SM00210; TSPN; 1.
 CC Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
 CC Cell adhesion; Collagen; Glycoprotein; Signal; Alternative splicing;
 CC Polymorphism; 3D-structure.
 CC SIGNAL 1 23
 CC CHAIN 24 1516
 CC CHAIN 1334 1516
 CC CHAIN 24 1516
 CC CHAIN 517 550
 CC CHAIN 551 560
 CC CHAIN 561 640
 CC CHAIN 641 664
 CC CHAIN 665 786
 CC CHAIN 787 809
 CC CHAIN 810 892
 CC CHAIN 893 906
 CC CHAIN 907 948
 CC CHAIN 949 961
 CC CHAIN 962 1034
 CC CHAIN 1035 1044
 CC CHAIN 1045 1077
 CC CHAIN 1078 1089
 CC CHAIN 1090 1111
 CC COLLAGEN ALPHA 1(XVIII) CHAIN.
 CC ENDOSTATIN.
 CC NONHELICAL REGION 1 (NC1).
 CC TRIPLE-HELICAL REGION 1 (COL1).
 CC NONHELICAL REGION 2 (NC2).
 CC TRIPLE-HELICAL REGION 2 (COL2).
 CC NONHELICAL REGION 3 (NC3).
 CC TRIPLE-HELICAL REGION 3 (COL3).
 CC NONHELICAL REGION 4 (NC4).
 CC TRIPLE-HELICAL REGION 4 (COL4).
 CC NONHELICAL REGION 5 (NC5).
 CC TRIPLE-HELICAL REGION 5 (COL5).
 CC NONHELICAL REGION 6 (NC6).
 CC TRIPLE-HELICAL REGION 6 (COL6).
 CC NONHELICAL REGION 7 (NC7).
 CC TRIPLE-HELICAL REGION 7 (COL7).
 CC NONHELICAL REGION 8 (NC8).
 CC TRIPLE-HELICAL REGION 8 (COL8).

FT		DNAIN	1112	1118		NONHELICAL REGION 9 (NC9).
FT		DNAIN	1179	1173		TRIPLE-HELICAL REGION 9 (COL9).
FT		DNAIN	1174	1186		NONHELICAL REGION 10 (NC10).
FT		DNAIN	1187	1204		TRIPLE-HELICAL REGION 10 (COL10).
FT		DNAIN	1205	1516		NONHELICAL REGION 11 (NC11).
FT		CARBOHD	68	68		N-LINKED (GLCNAC . . .) (POTENTIAL) .
FT		CARBOHD	129	129		N-LINKED (GLCNAC . . .) (POTENTIAL) .
FT		CARBOHD	164	164		N-LINKED (GLCNAC . . .) (POTENTIAL) .
FT		CARBOHD	691	691		O-LINKED (GALNAC . . .) (POTENTIAL) .
FT		CAROHND	1329		/FETID-CAR_000150.	BY SIMILARITY.
FT		DISULFD	1366	1506		CELL ATTACHMENT SITE (POTENTIAL).
FT		DISLFLD	1468	1498		Missing (In Isoform Short).
FT		SITE	1095	1097		/FETID-VSP_001155.
FT		VANSPDIC	1	180		HTEGTGLTPAPRPBPSSPSGRPWPLTGSVPPSS -> MA
FT		VANSPDIC	181	215		PRCPEMPRRRLDLVLAVLVLLGVRAASAP (ln
FT		VANSPDIC				Isoform Short).
FT		VARIANT	1437	1437		/FETID-VSP_001156.
FT						D -> N (Increased risk of developing
FT						prostate cancer).
FT		CONFLICT	428	428		/FETID=VAR_O12709.
FT		CONFLICT	841	841		F -> S (IN REF. 2).
FT		CONFLICT	877	877		I -> V (IN REF. 2).
FT		CONFLICT	886	886		V -> L (IN REF. 3).
FT		CONFLICT	912	912		P -> R (IN REF. 3).
FT		CONFLICT	933	933		R -> R (IN REF. 3).
FT		CONFLICT	975	975		P -> L (IN REF. 3).
FT		CONFICT	1064	1064		A -> P (IN REF. 3).
FT		CONFICT	1084	1084		L -> K (IN REF. 3).
FT		CONFICT	1120	1120		P -> A (IN REF. 3).
FT		CONFICT	1123	1123		P -> A (IN REF. 3).
FT		CONFICT	1206	1126		P -> PRGP (IN REF. 2).
FT		CONFICT	1304	1304		G -> GO (IN REF. 3).
FT		CONFICT	1314	1314		R -> G (IN REF. 3).
FT		CONFICT	1323	1324		A -> G (IN REF. 3).
FT		CONFICT	1443	1443		LR -> CG (IN REF. 3).
FT		CONFICT	1483	1483		R -> T (IN REF. 4).
FT		SEQUENCE	1516 AA;	153840 MW;		S -> Y (IN REF. 4).
QY		NGMCLCGA---GVPGRDGSGANYIPTPGIPGDGKGEDELRESFEESWPNRK	8.9%; Best Local Similarity Matches 26; Conservative	Score 115.5; Pred. No. 0.026; Mismatched 20; Indels	DB 1; Length 1516; No. 0.026; Indels 5; Gaps	107
Db		691 NSSDPGPAGLPVGPRGBPGFPGLPGPPPGRGGPPRGGO--KSLIGENAGAPGHK				747
RESULT 8						
ID	CA14_HUMAN	STANDARD:				
AC	P02462;					
DT	21-JUL-1986 (Rel. 01, created)					
DR	01-FEB-1986 (Rel. 33, last sequence update)					
DI	15-SEP-2003 (Rel. 42, last annotation update)					
DE	Collagen alpha I(IV) chain precursor.					
GN	COLA1.					
OS	Homo sapiens (Human);					
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
OX	Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.					
NN	(1)					
NP	SEQUENCE FROM N.A.					
RX	MEDLINE-89340433; PubMed-2701944;					
SA	Soiminen R., Huotari M., Ganguly A., Prockop D.J., Trygvaason K.;					
RT	"Structural organization of the gene for the alpha 1 chain of human					
TL	J. Biol. Chem. 264:13565-13571(1989)."					
NN	[2]					

RP SEQUENCE OF 46-1257 FROM N.A.
RC TISSUE-Placenta;
RX MEDLINE=80083584; PubMed=3691802;
RA Sothinen R., Haka-Risku T., Prockop D.J., Tryggvason K.;
RT "Complete primary structure of the alpha 1-chain of human basement
RL membrane (type IV) collagen.";
RN FEBS Lett. 225:188-194(1987).
[3]
RN SEQUENCE OF 1-943 FROM N.A.
RC TISSUE-Placenta;
RX MEDLINE=88029471; PubMed=3311751;
RA Bräzel D., Oberhauser I., Dierlinger H., Babel W., Glanville R.W.,
RA Deltmann R., Kuehn K.;
RT "Completion of the amino acid sequence of the alpha 1 chain of human
RT basement membrane collagen (type IV) reveals 21 non-triplet
RL interruptions located within the collagenous domain.";
RN Eur. J. Biochem. 168:529-536(1987).
[4]
RN SEQUENCE OF 28-243.
RX MEDLINE=86004708; PubMed=4043082;
RA Glanville R.W., Qian R.O., Stebald B., Ristell J., Kuehn K.;
RT "Amino acid sequence of the N-terminal aggregation and cross-linking
RT region (75 domain) of the alpha 1 (IV) chain of human basement
RL membrane collagen.";
RN Eur. J. Biochem. 152:213-219(1985).
[5]
RN SEQUENCE OF 534-1447.
RX MEDLINE=85003629; PubMed=6433307;
RA Babel W., Glanville R.W.;
RT "Structure of human basement-membrane (type IV) collagen. Complete
RT amino acid sequence of a 914-residue-long pepsin fragment from the
RL alpha 1(IV) chain.";
RN Eur. J. Biochem. 143:545-556(1984).
[6]
RN SEQUENCE OF 1256-1669 FROM N.A.
RX MEDLINE=85207819; PubMed=2581969;
RA Pihlajaniemi T., Tryggvason K., Myers J.C., Kurkinen M., Lebo R.,
RA Cheung M.-C., Prockop D.J., Boyd C.D.;
RT "cDNA clones coding for the pro-alpha1(IV) chain of human type IV
RT procollagen reveal an unusual homology of amino acid sequences in two
RL halves of the carboxy-terminal domain.";
RN J. Biol. Chem. 260:7681-7687(1985).
[7]
RN SEQUENCE OF 1259-1669 FROM N.A.
RX MEDLINE=85216555; PubMed=2582422;
RA Brinker J.M., Gudas L.J., Loidl H.R., Wang S.-Y., Rosenbloom J.,
RA Ketalides N.A., Myers J.C.;
RT "Restricted homology between human alpha 1 type IV and other
RL procollagen chains.";
RN Proc. Natl. Acad. Sci. U.S.A. 82:3649-3653(1985).
[8]
RN SEQUENCE OF 1-28 FROM N.A.
RX MEDLINE=89034231; PubMed=182844;
RA Sothinen R., Huotari M., Hoselika S.L., Prockop D.J., Tryggvason K.;
RT "The structural genes for alpha 1 and alpha 2 chains of human type IV
RT collagen are divergently encoded on opposite DNA strands and have an
RL overlapping promoter region.";
RN J. Biol. Chem. 263:17217-17220(1988).
[9]
RN SEQUENCE OF 1441-1669, AND DISULFIDE BONDS.
RC TISSUE-Placenta;
RX MEDLINE=89005112; PubMed=2844531;
RA Stebald B., Deltmann R., Kuehn K.;
RT "The arrangement of intra- and intermolecular disulfide bonds in the
RT carboxyterminal, non-collagenous aggregation and cross-linking domain
RL of basement-membrane type IV collagen.";
RN Eur. J. Biochem. 176:617-624(1988).
[10]
RN FUNCTION: TYPE IV COLLAGEN IS THE MAJOR STRUCTURAL COMPONENT OF
CC GLOMERULAR BASEMENT MEMBRANES (GBM), FORMING A 'CHICKEN-WIRE'
CC MESHWORK TOGETHER WITH LAMININS, PROTEOGLYCANS AND ENACTIN/
CC NIDOGN.
CC
CC -1- SUBUNIT: THERE ARE SIX TYPE IV COLLAGEN ISOFORMS, ALPHA 1(IV) -
CC ALPHA 6(IV), EACH OF WHICH CAN FORM A TRIPLE HELIX STRUCTURE

WITH 2 OTHER CHAINS TO GENERATE TYPE IV COLLAGEN NETWORK.
 - DOMAIN: ALPHA CHAINS OF TYPE IV COLLAGEN HAVE A NONCOLLAGENOUS
 G-X-Y REPEATS IN THE LONG CENTRAL TRIPLE-HELICAL DOMAIN (WHICH MAY
 CAUSE FLEXIBILITY IN THE TRIPLE HELIX), AND A SHORT N-TERMINAL
 TRIPLE-HELICAL 7S DOMAIN.
 - PTM: Lysines at the third position of the tripeptide repeating
 unit (G-X-Y) are hydroxylated in all cases and bind carbohydrates.
 - PTM: Prolines at the third position of the tripeptide repeating
 unit (G-X-Y) are hydroxylated in some or all of the chains.
 - PTM: Type IV collagens contain numerous cysteine residues which
 are involved in inter- and intramolecular disulfide bonding. 12 of
 these, located in the NC1 domain, are conserved in all known type
 IV collagens.

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 or send an email to license@isb-sib.ch).

CC EMBL: M26576; AAAS3098.1; JOINED.
 CC EMBL: J04217; AAAS3098.1; JOINED.
 CC EMBL: M26550; AAAS3098.1; JOINED.
 CC EMBL: M26540; AAAS3098.1; JOINED.
 CC EMBL: M26542; AAAS3098.1; JOINED.
 CC EMBL: M26543; AAAS3098.1; JOINED.
 CC EMBL: M26544; AAAS3098.1; JOINED.
 CC EMBL: M26545; AAAS3098.1; JOINED.
 CC EMBL: M26546; AAAS3098.1; JOINED.
 CC EMBL: M26547; AAAS3098.1; JOINED.
 CC EMBL: M26537; AAAS3098.1; JOINED.
 CC EMBL: M26538; AAAS3098.1; JOINED.
 CC EMBL: M26548; AAAS3098.1; JOINED.
 CC EMBL: M26549; AAAS3098.1; JOINED.
 CC EMBL: M26551; AAAS3098.1; JOINED.
 CC EMBL: M26552; AAAS3098.1; JOINED.
 CC EMBL: M26553; AAAS3098.1; JOINED.
 CC EMBL: M26554; AAAS3098.1; JOINED.
 CC EMBL: M26555; AAAS3098.1; JOINED.
 CC EMBL: M26556; AAAS3098.1; JOINED.
 CC EMBL: M26539; AAAS3098.1; JOINED.
 CC EMBL: M26558; AAAS3098.1; JOINED.
 CC EMBL: M26559; AAAS3098.1; JOINED.
 CC EMBL: M26560; AAAS3098.1; JOINED.
 CC EMBL: M26561; AAAS3098.1; JOINED.
 CC EMBL: M26562; AAAS3098.1; JOINED.
 CC EMBL: M26536; AAAS3098.1; JOINED.
 CC EMBL: M26563; AAAS3098.1; JOINED.
 CC EMBL: M26541; AAAS3098.1; JOINED.
 CC EMBL: M26564; AAAS3098.1; JOINED.
 CC EMBL: M26565; AAAS3098.1; JOINED.
 CC EMBL: M26566; AAAS3098.1; JOINED.
 CC EMBL: M26567; AAAS3098.1; JOINED.
 CC EMBL: M26568; AAAS3098.1; JOINED.
 CC EMBL: M26569; AAAS3098.1; JOINED.
 CC EMBL: M26570; AAAS3098.1; JOINED.
 CC EMBL: M26571; AAAS3098.1; JOINED.
 CC EMBL: M26572; AAAS3098.1; JOINED.
 CC EMBL: M26573; AAAS3098.1; JOINED.
 CC EMBL: M26574; AAAS3098.1; JOINED.
 CC EMBL: M26575; AAAS3098.1; JOINED.
 CC EMBL: Y00706; CAAS6898.1; JOINED.
 CC EMBL: X05561; CAAS9075.1; JOINED.
 CC EMBL: M10940; AAAS2006.1; JOINED.
 CC EMBL: M11315; AAAS2042.1; JOINED.
 CC PIR: S16876; CGH048.
 CC Genev: HGNC:2202; COL4A1.
 CC MIM: 120130; COL4A1.
 CC InterPro: IPR000087; Collagen.

DR InterPro: IPR001442; ProcollagenC4.
 DR Pfam: PF01413; C4; 2.
 DR Pfam: PF01391; Collagen; 24.
 DR ProDom: PD000007; C1q_helix; 6.
 DR ProDom: PD003923; ProcollagenC4; 1.
 DR SMART: SM0011; C4; 2.
 KW Extracellular matrix; Connective tissue; Basement membrane;
 Repeat; Hydroxylation; Glycoprotein; Collagen; Signal.
 FT SIGNAL 1 27
 FT PROPEP 173 1669
 FT CHAIN 173 1440
 FT DOMAIN 1441 1669
 FT CARBOHD 126 126
 FT DISULFID 1460 1551
 FT DISULFID 1493 1548
 FT DISULFID 1505 1511
 FT DISULFID 1570 1665
 FT DISULFID 1604 1662
 FT DISULFID 1616 1662
 FT CONFLICT 237 238
 FT CONFLICT 241 241
 FT CONFLICT 319 319
 FT CONFLICT 719 719
 FT CONFLICT 837 837
 FT CONFLICT 842 842
 FT CONFLICT 896 896
 FT CONFLICT 904 904
 FT CONFLICT 914 914
 FT CONFLICT 998 998
 FT CONFLICT 1010 1010
 FT CONFLICT 1012 1012
 FT CONFLICT 1358 1358
 SQ SEQUENCE 1669 AA; 160611 MW; 3BBAB6DFB9B8A84 CRC64;
 Query Match 8.9%; Score 115.5; DB 1; Length 1669;
 Best Local Similarity 34.8%; Pred. No. 0.029; Mismatches 32; Conservative 5; Indels 35; Gaps 4;
 DB 1212 MGPPPGQGP-----GLPGSPGHATGEGKGD-----RGP 1240
 QY 1 MRPGPAASPORLRLILLLILQLP-APSSASEIPKQKQALRQREYVDLYNGMCLGQ 59
 DB 60 AGVPRDSSPGANVPTGPTGRTGRGFEKGEK 91
 QY 1241 GQPGPLGILGPP--MGPPGLPIDGVKDXG 1269
 DB 1241 GQPGPLGILGPP--MGPPGLPIDGVKDXG 1269
 RESULT 9
 CA13_HUMAN STANDARD; PRT; 1466 AA.
 AC P02461; Q15112;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 01-JAN-1990 (Rel. 13, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Collagen alpha 1(III) chain precursor.
 GN COL3A1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_Taxid=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE-Skin fibroblast;
 RX MEDLINE=89350838; PubMed=2764886;
 RA Ala-Korko L., Kontusaari S., Baldwin C.T., Kulvaneniemi H.,
 RA Prockop D.J.;
 RT "Structure of cDNA clones coding for the entire prepro alpha 1 (III)
 RT chain of human type III procollagen. Differences in protein structure
 RT from type I procollagen and conservation of codon preferences";
 RL Biochem. J. 260:509-516(1989).
 RN [2]
 RP SEQUENCE OF 149-1225 FROM N.A.

RX MEDLINE-89386015; PubMed-2780304;
 RA Janeczko R.A., Ramirez F.;
 RT "Nucleotide and amino acid sequences of the entire human alpha 1
 (III) collagen.";
 RL Nucleic Acids Res. 17:6742-6742(1989).
 RN [3]
 RP SEQUENCE OF 168-398.
 RX MEDLINE-77134724; PubMed-557335;
 RA Seyer J.M., Kang A.H.;
 RT "Covalent structure of collagen: amino acid sequence of cyanogen
 bromide peptides from the amino-terminal segment of type III collagen
 of human liver.";
 RL Biochemistry 16:1158-1164(1977).
 RN [4]
 RP REVISIONS.
 RA Seyer J.M.;
 RL Submitted (DEC-1977) to the PIR data bank.
 RN [5]
 RP SEQUENCE OF 399-727.
 RX MEDLINE-79000343; PubMed-687591;
 RA Seyer J.M., Kang A.H.;
 RT "Covalent structure of collagen: amino acid sequence of five
 consecutive CNBr peptides from type III collagen of human liver.";
 RL Biochemistry 17:3404-3411(1978).
 RN [6]
 RP SEQUENCE OF 728-964.
 RX MEDLINE-80198282; PubMed-6246925;
 RA Seyer J.M., Mainardi C., Kang A.H.;
 RT "Covalent structure of collagen: amino acid sequence of alpha 1
 (III)-CDS from type III collagen of human liver.";
 RL Biochemistry 19:1583-1589(1980).
 RN [7]
 RP SEQUENCE OF 950-1466 FROM N.A.
 RX MEDLINE-88189827; PubMed-3357782;
 RA Mankoo B.S., Dalgleish R.;
 RT "Human pro alpha 1(III) collagen: cDNA sequence for the 3' end.";
 RL Nucleic Acids Res. 16:2337-2337(1988).
 RN [8]
 RP REVISION TO 1184.
 RX MEDLINE-89098346; PubMed-3211760;
 RA Molyneux K., Dalgleish R.;
 RT "Human type III collagen 'variant' is a cDNA cloning artefact.";
 RL Nucleic Acids Res. 16:11833-11833(1988).
 RN [9]
 RP SEQUENCE OF 1065-1466 FROM N.A.
 RX MEDLINE-85087944; PubMed-6096827;
 RA Loidl H.R., Brinker J.M., May M., Pihlajaniemi T., Morrow S.,
 RT "Molecular cloning and carboxyl-propeptide analysis of human type III
 procollagen.";
 RL Nucleic Acids Res. 12:9383-9394(1984).
 RN [10]
 RP SEQUENCE OF 965-1200.
 RX MEDLINE-81208139; PubMed-7016180;
 RA Seyer J.M., Kang A.H.;
 RT "Covalent structure of collagen: amino acid sequence of alpha
 1(III)-CB9 from type III collagen of human liver.";
 RL Biochemistry 20:2621-2627(1981).
 RN [11]
 RP SEQUENCE OF 1176-1466 FROM N.A.
 RX MEDLINE-85157600; PubMed-2579949;
 RA Chu M.-Y., Weil D., de Wet W.J., Bernard M.P., Sippola M., Ramirez F.;
 RT "Isolation of cDNA and genomic clones encoding human pro-alpha 1
 (III) collagen. Partial characterization of the 3' end region of the
 gene.";
 RL J. Biol. Chem. 260:4357-4363(1985).
 RN [12]
 RP SEQUENCE OF 1161-1200 FROM N.A.
 RX MEDLINE-86187804; PubMed-3754462;
 RA Miskulin M., Dalgleish R., Klueve-Beckerman B., Rennard S.I.,
 RT Tolstoshev P., Brantly M., Crystal R.G.;
 RT "Human type III collagen gene expression is coordinately modulated
 with the type I collagen genes during fibroblast growth.";
 RL Biochemistry 25:1408-1413(1986).
 RN [13]
 RP SEQUENCE OF 1-170 FROM N.A.
 RC TISSUE-Patients:
 RX MEDLINE-88303360; PubMed-3405773;
 RA Toman D., Ricca G., de Crombrughe B.;
 RT "Nucleotide sequence of a cDNA coding for the amino-terminal region
 of human prepro alpha 1(III) collagen.";
 RL Nucleic Acids Res. 16:7201-7201(1988).
 RN [14]
 RP SEQUENCE OF 1-176 FROM N.A.
 RX MEDLINE-89378752; PubMed-2777083;
 RA Benson-Chanda V., Su M.W., Weil D., Chu M.-L., Ramirez F.;
 RT "Cloning and analysis of the 5' portion of the human type-III
 procollagen gene (COL3A1).";
 RL Gene 78:255-265(1989).
 RN [15]
 RP REVIEW ON VARIANTS.
 RX MEDLINE-97255959; PubMed-9101290;
 RA Kuivaniemi H., Tromp G., Prockop D.J.;
 RT "Mutations in fibrillar collagens (types I, II, III, and XI), fibril-
 associated collagen (type IX), and network-forming collagen (type X)
 cause a spectrum of diseases of bone, cartilage, and blood vessels.";
 RL Hum. Mutat. 9:300-315(1997).
 RN [16]
 RP VARIANT AORTIC ANEURYSM ARG-303, AND VARIANT THR-668.
 RX MEDLINE-93293988; PubMed-8514866;
 RA Tromp G., Wu Y., Prockop D.J., Madhathri S.L., Kleinert C.,
 RA Earley J.J., Zhuang J., Noerregaard O., Darling R.C., Abbott W.M.,
 RA Cole C.W., Jaakkola P., Rymaszewski M., Pearce W.H., Yao J.S.T.,
 RA Majumdar K., Smillens S.N., Gatalica Z., Farrell R.E., Jimenez S.A.,
 RA Jackson C.E., Michaels V.V., Kaye M., Kuivaniemi H.;
 RT "Sequencing of cDNA from 50 unrelated patients reveals that mutations
 in the triple-helical domain of type III procollagen are an
 infrequent cause of aortic aneurysms.";
 RL J. Clin. Invest. 91:2539-2545(1993).
 RN [17]
 RP VARIANT THR-698.
 RX MEDLINE-91045136; PubMed-2235526;
 RA Zafarullah K., Kleinert C., Tromp G., Kuivaniemi H., Kontusaari S.,
 RA Wu Y., Ganguly A., Prockop D.J.;
 RT "A polymorphism in exon 31 of the COL3A1 gene.";
 RL Nucleic Acids Res. 18:6180-6180(1990).
 RN [18]
 RP VARIANT AORTIC ANEURYSM ARG-786.
 RX MEDLINE-91056145; PubMed-2243125;
 RA Kontusaari S., Tromp G., Kuivaniemi H., Romanic A.M., Prockop D.J.;
 RT "A mutation in the gene for type III procollagen (COL3A1) in a family
 with aortic aneurysms.";
 RL J. Clin. Invest. 86:1465-1473(1990).
 RN [19]
 RP VARIANT EDS-IV ARG-828.
 RX MEDLINE-94016385; PubMed-8411057;
 RA Richards A.J., Narcisi P., Lloyd J.C., Ferguson C., Pope F.M.;
 RT "The substitution of glycine 661 by arginine in type III collagen
 produces mutant molecules with different thermal stabilities and
 RT causes Ehlers-Danlos syndrome type IV.";
 RL J. Med. Genet. 30:690-693(1993).
 RN [20]
 RP VARIANT EDS-IV SER-957.
 RX MEDLINE-89109135; PubMed-2492273;
 RA Tromp G., Kuivaniemi H., Shikata H., Prockop D.J.;
 RT "A single base mutation that substitutes serine for glycine 790 of
 the alpha 1 (III) chain of type III procollagen exposes an arginine
 RT and causes Ehlers-Danlos syndrome IV.";
 RL J. Biol. Chem. 264:1349-1352(1989).
 RN [21]
 RP VARIANT EDS-IV VAL-960.
 RX MEDLINE-95268429; PubMed-7749417;
 RA Tromp G., de Paeppe A., Nuytink L., Madhathri S.L., Kuivaniemi H.,
 RT "Substitution of valine for glycine 793 in type III procollagen in
 Hum. Mutat. 5:179-181(1995).
 RL

OY 214 WGTGSDYKRGDASTGMSY 233
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ID CA64_HUMAN STANDARD; PRT; 1691 AA.
AC 014031; Q12823; Q14053; Q9NOM5; Q9WTX3; Q9UJ76; Q9UNG6; Q9Y4L4;
DT 01-NOV-1997 (Rel. 35, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Collagen alpha 6(IV) chain precursor.
GN COL4A6.
OS Homo sapiens (human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN (1)
RP SEQUENCE FROM N.A. (ISOFORM B).
RC TISSUE-Eye, and Kidney;
RX MEDLINE=94171779; PubMed=8125972;
RA Ohashi T., Sugimoto M., Mattei M.-G., Ninomiya Y.,
RT Identification of a new collagen IV chain, alpha 6(IV), by cDNA
RT isolation and assignment of the gene to chromosome Xq22, which is the
RT same locus for COL4A5.";
RL J. Biol. Chem. 269:7520-7526(1994).
RN (2)
RP SEQUENCE FROM N.A. (ISOFORM A).
RX MEDLINE=94230418; PubMed=8157548;
RA Zhou J., Ding M., Zhao Z., Reeders S.T.,
RT Complete primary structure of the sixth chain of human basement
RT membrane collagen, alpha 6(IV). Isolation of the cDNAs for alpha 6(IV)
RT and comparison with five other type IV collagen chains.";
RL J. Biol. Chem. 269:13193-13199(1994).
RN (3)
RP SEQUENCE FROM N.A. (ISOFORMS A AND B), AND VARIANTS ALA-455 AND
RP LYS-1110.
RX MEDLINE=96299642; PubMed=8661006;
RA Zhang X., Zhou J., Reeders S.T., Tryggvason K.,
RT Structure of the human type IV collagen COL4A6 gene, which is mutated
RT in Alport syndrome-associated leiomyomatosis.";
RL Genomics 33:473-479(1996).
RN (4)
RP SEQUENCE FROM N.A.
RA Bird C., Grafham D., Lawlor S., Wilson S.,
RL Submitted (APR-2000) to the EMBL/GenBank/DBJ databases.
RN [5]
RP SEQUENCE OF 1-542 FROM N.A. (ISOFORM A).
RX MEDLINE=93361972; PubMed=8356449;
RA Zhou J., Mochizuki T., Smeets H., Antignac C., Laurila P.,
RA de Paeppe A., Tryggvason K., Reeders S.T.,
RT Deletion of the paired alpha 5(IV) and alpha 6(IV) collagen genes in
RT inherited smooth muscle tumors.";
RL Science 261:1167-1169(1993).
CC -1- FUNCTION: Type IV collagen is the major structural component of
CC glomerular basement membranes (GBM), forming a 'chicken-wire'
CC meshwork together with laminins, proteoglycans and actinin/
CC nidogen.
CC -1- SUBUNIT: THERE ARE SIX TYPE IV COLLAGEN ISOFORMS, ALPHA 1(IV) -
CC ALPHA 6(IV), EACH OF WHICH CAN FORM A TRIPLE HELIX STRUCTURE WITH
CC 2 OTHER CHAINS TO GENERATE TYPE IV COLLAGEN NETWORK.
CC -1- SUBCELLULAR LOCATION: CELL SURFACE (POTENTIAL).
CC -1- ALTERNATIVE PRODUCTS:
CC Event-Alternative splicing; Named isoforms=2;
CC Name=A;
CC IsoId=Q14031-1; Sequence=Displayed;
CC Name=B;
CC IsoId=Q14031-2; Sequence=VSP_001174;
CC -1- DOMAIN: ALPHA CHAINS OF TYPE IV COLLAGEN HAVE A NONCOLLAGENOUS
CC DOMAIN (NC1) AT THEIR C-TERMINUS, FREQUENT INTERRUPTIONS OF THE
CC G-X-Y REPEATS IN THE LONG CENTRAL TRIPLE-HELICAL DOMAIN (WHICH MAY
CC CAUSE FLEXIBILITY IN THE TRIPLE HELIX), AND A SHORT N-TERMINAL

CC TRIPLE-HELICAL 7S DOMAIN.
CC -1- PTM: Prolines at the third position of the tripeptide repeating
CC unit (G-X-Y) are hydroxylated in some or all of the chains.
CC -1- PTM: Type IV collagens contain numerous cysteine residues which
CC are involved in inter- and intramolecular disulfide bonding. 12 of
CC these, located in the NC1 domain, are conserved in all known type
CC IV collagens.
CC -1- SIMILARITY: TO OTHER TYPE IV COLLAGENS.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL Outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).
CC -----
DR EMBL: D21337; BAA04809.1; -;
DR EMBL: U04845; AAB19569.2; -;
DR EMBL: U47004; AAB19038.1; -;
DR EMBL: U46959; AAB19038.1; JOINED.
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 DR EMBL: U46987; AAB19039.1; JOINED.
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 DR EMBL: U47002; AAB19039.1; JOINED.
 DR EMBL: U47003; AAB19039.1; JOINED.
 DR EMBL: AL034369; CAA22265.1; -
 DR EMBL: AL109943; CAB89263.1; -
 DR EMBL: AL136080; CAB96748.1; -
 DR EMBL: AL031177; CAA20120.1; -
 DR EMBL: L22763; AAA16338.1; -
 DR PIR: A54122; CGH06B.
 DR Gene: HGNC:2208; COL4A6.
 DR MIM: 303631; -
 DR GO: GO:0005587; C:collagen type IV; NAS.
 DR GO: GO:0005201; F:extracellular matrix structural constituent; NAS.
 DR GO: GO:0030198; P:extracellular matrix organization and biogen. . .; NAS.
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR001442; ProcollagenC4.
 DR Pfam: PF01413; C4; 2.
 DR Pfam: PF01391; Collagen; 20.
 DR ProDom: PD000007; C1g_helix; 4.
 DR ProDom: PD003923; ProcollagenC4; 1.
 DR SMART: SM00111; C4; 2.
 DR KEGG: KEGG01001; Connective tissue; Basement membrane;
 KEGG: KEGG01002; Glycopolymers; Cell adhesion; Collagen; Signal;
 KEGG: KEGG01003; Polymorphism.
 KEGG: KEGG01004; POTENTIAL.
 KEGG: KEGG01005; COLLAGEN ALPHA 6(IV) CHAIN.
 KEGG: KEGG01006; 7S DOMAIN.
 KEGG: KEGG01007; TRIPLE-HELICAL REGION.
 KEGG: KEGG01008; 47 1463

Query Match 8.7% Score 113.5; DB 1; Length 1691;
 Best Local Similarity 36.0%; Pred. No. 0.045;
 Matches 36; Conservative 9; Mismatches 22; Indels 33; Gaps 7;

4 QGPASQRLRGILLTLLQLPAPSSASEIPKQKQKQALRQREVVDLYNGM----- 54
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 QY 55 -CIQAGPAGVGRDSDPGANVIGTPGIP--GRDQKRGK 91
 DB 566 QGFRGVIGEPKGDVPG--LPGLRGLRGDGGGQGPPEKG 602

RESULT 12
 ID CA17_HUMAN STANDARD; PRT; 2944 AA.
 AC 002388; Q14054; Q16507;
 DT 01-JUN-1994 (Rel. 29, Created)
 DT 01-FEB-1996 (Rel. 33, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Collagen alpha 1(VII) chain precursor (Long-chain collagen) (LC collagen).
 GN COL7A1.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-94327588; PubMed-8051117;
 RA Christiano A.M., Greenspan D.S., Lee S., Uitto J.;
 RT "Cloning of human type VII collagen. Complete primary sequence of the alpha 1(VII) chain and identification of intragenic polymorphisms.";
 RL J. Biol. Chem. 269:20256-20262(1994).
 RN [2]
 RP SEQUENCE OF 128-1493 FROM N.A. AND PARTIAL SEQUENCE.
 RX MEDLINE-93338437; PubMed-1307247;
 RA Christiano A.M., Rosenbaum L.M., Chung-Honet L.C., Parente M.G., Woodley D.T., Pan T.C., Zhang R.Z., Chu M.-L., Burgeson R.E., Uitto J.;
 RT "The large non-collagenous domain (NC-1) of type VII collagen is amino-terminal and chimeric. Homology to cartilage matrix protein, the type III domain of fibronectin and the A domains of von Willebrand factor.";
 RL Hum. Mol. Genet. 1:475-481(1992).
 RN [3]
 RP SEQUENCE OF 815-1439 FROM N.A.
 RX MEDLINE-93334380; PubMed-1871109;
 RA Parente M.G., Chung J.C., Rymaszewski J., Woodley D.T., Wynn K.W., Bauer E.A., Mattei M.-G., Chu M.-L., Uitto J.;
 RT "Human type VII collagen: cDNA cloning and chromosomal mapping of the gene.";
 RL Proc. Natl. Acad. Sci. U.S.A. 88:6931-6935(1991).
 RN [4]
 RP SEQUENCE OF 369-1255 FROM N.A.
 RX MEDLINE-93107742; PubMed-1469284;
 RA Gammon W.R., Abernethy M.L., Padilla K.M., Priesayn P.S., Cook M.E., Wright J., Brigaman R.A., Hunt S.W. III;
 RT "Noncollagenous (NC1) domain of collagen VII resembles multidomain adhesion proteins involved in tissue-specific organization of extracellular matrix.";
 RL J. Invest. Dermatol. 99:691-696(1992).
 RN [5]
 RP SEQUENCE OF 340-675 FROM N.A.
 RX MEDLINE-92231902; PubMed-1567409;
 RA Tanaka T., Takahashi K., Furukawa F., Imamura S.;
 RT "Molecular cloning and characterization of type VII collagen cDNA.";
 RL Biochem. Biophys. Res. Commun. 183:958-963(1992).
 RN [6]
 RP SEQUENCE OF 2395-2944 FROM N.A.
 RX MEDLINE-93271985; PubMed-8499916;
 RA Greenspan D.S.;
 RT "The carboxyl-terminal half of type VII collagen, including the non-collagenous NC-2 domain and intron/exon organization of the corresponding region of the COL7A1 gene.";
 RL Hum. Mol. Genet. 2:273-278(1993).
 RN [7]
 RP SEQUENCE OF 1-87 FROM N.A.
 RX MEDLINE-94375010; PubMed-8088784;
 RA Christiano A.M., Hoffman G.G., Chung-Honet L.C., Lee S., Cheng W., Uitto J., Greenspan D.S.;
 RT "Structural organization of the human type VII collagen gene (COL7A1),

RT composed of more exons than any previously characterized gene.;"

RL Genomics 21:169-179(1994).

RP REVIEW ON DEB VARIANTS.

RX MEDLINE-98041696; PubMed-9375848;

RA Jaervikallio A., Pulkkinen L., Uitto J.;

RT "Molecular basis of dystrophic epidermolysis bullosa: mutations in the type VII collagen gene (COL7A1).";

RL Hum. Mutat. 10:338-347(1997).

RN [19]

RP VARIANT DEB LYS-2798.

RX MEDLINE-93291877; PubMed-8513326;

RA Christiansen A.M., Greenspan D.S., Hoffman G.G., Zhang X., Tamai Y., Lin A.N., Dietz H.C., Hovnanian A., Uitto J.;

RT "A missense mutation in type VII collagen in two affected siblings with recessive dystrophic epidermolysis bullosa.;"

RL Nat. Genet. 4:62-66(1993).

RN [10]

RP VARIANT DEB SER-2040.

RX MEDLINE-94224777; PubMed-8170945;

RA Christiansen A.M., Rymaszewski M., Uitto J.;

RT "Dominant dystrophic epidermolysis bullosa: identification of a Gly->Ser substitution in the triple-helical domain of type VII collagen.;"

RL Proc. Natl. Acad. Sci. U.S.A. 91:3549-3553(1994).

RN [11]

RP VARIANT DEB CYS-2623.

RX MEDLINE-96081220; PubMed-8541842;

RA Christiansen A.M., Lee J.Y.-Y., Chen W.J., Laforgia S., Uitto J.;

RT "Peribulbar epidermolysis bullosa: genetic linkage to COL7A1 and identification of a glycine-to-cysteine substitution in the triple-helical domain of type VII collagen.;"

RL Hum. Mol. Genet. 4:1579-1583(1995).

RN [12]

RP VARIANT DEB ARG-2043.

RX MEDLINE-95164985; PubMed-7861014;

RA Christiansen A.M., Moriccone A., Paradisi M., Angelo C., Mazzanti C., Cavalletti R., Uitto J.;

RT "A glycine-to-arginine substitution in the triple-helical domain of type VII collagen in a family with dominant dystrophic epidermolysis bullosa.;"

RL J. Invest. Dermatol. 104:438-440(1995).

RN [13]

RP VARIANTS DEB.

RX MEDLINE-96220218; PubMed-8644729;

RA Christiansen A.M., McGrath J.A., Tan K.C., Uitto J.;

RT "Glycine substitutions in the triple-helical region of type VII collagen result in a spectrum of dystrophic epidermolysis bullosa phenotypes and patterns of inheritance.;"

RL Am. J. Hum. Genet. 58:671-681(1996).

RN [14]

RP VARIANT DEB ARG-2575.

RX MEDLINE-96154068; PubMed-8592061;

RA Shimizu H., McGrath J.A., Christiansen A.M., Nishikawa T., Uitto J.;

RT "Molecular basis of recessive dystrophic epidermolysis bullosa: genotype/phenotype correlation in a case of moderate clinical severity.;"

RL J. Invest. Dermatol. 106:119-124(1996).

RN [15]

RP VARIANT DEB ARG-1782.

RX MEDLINE-96183562; PubMed-8618018;

RA Christiansen A.M., McGrath J.A., Uitto J.;

RT "Influence of the second COL7A1 mutation in determining the phenotypic severity of recessive dystrophic epidermolysis bullosa.;"

RL J. Invest. Dermatol. 106:766-770(1996).

RN [16]

RP VARIANT DEB ASP-2073.

RX MEDLINE-96310789; PubMed-8757758;

RA Dunnill M.G.S., McGrath J.A., Richards A.J., Christiansen A.M., Uitto J., Pope F.M., Bady R.A.J.;

RT "Clinicopathological correlations of compound heterozygous COL7A1 mutations in recessive dystrophic epidermolysis bullosa.;"

RL J. Invest. Dermatol. 107:171-177(1996).

RN [17]

RP VARIANTS DEB TRP-1982; GLY-2008; ALA-2025; GLU-2049; TRP-2063 AND ARG-2575.

RX MEDLINE-97465605; PubMed-9326325;

RA Hovnanian A., Rochat A., Bodemer C., Petit E., Rivers C.A., Prost C., Fraile S., Christiansen A.M., Uitto J., Lathrop M., Barrandon Y., de Prost Y.;

RT "Characterization of 18 new mutations in COL7A1 in recessive dystrophic epidermolysis bullosa provides evidence for distinct molecular mechanisms underlying defective anchoring fibril formation.;"

RL Am. J. Hum. Genet. 61:599-610(1997).

RN [18]

RP VARIANT DEB ARG-1652.

RX MEDLINE-98106792; PubMed-944387;

RA Gershtalim-Friedman P.B., Karpali S., Horvath A., Christiansen A.M.;

RT "Identification of a glycine substitution and a splice site mutation in the type VII collagen gene in a proband with mild recessive dystrophic epidermolysis bullosa.;"

RL Arch. Dermatol. Res. 289:640-645(1997).

RN [19]

RP VARIANTS DEB ARG-2009 AND ARG-2043.

RX MEDLINE-97358588; PubMed-9215684;

RA Winberg J.-O., Hammami-Hausali N., Nilsen O., Anton-Lamprecht I., Naylor S.L., Kerbacher K., Zimmermann M., Krajci P., Gedde-Dahl T. Jr., Bruckner-Tuderman L.;

RT "Modulation of disease severity of dystrophic epidermolysis bullosa by a splice site mutation in combination with a missense mutation in the COL7A1 gene.;"

RL Hum. Mol. Genet. 6:1125-1135(1997).

RN [20]

RP VARIANTS DEB ASP-1519; ASP-2006; GLU-2015 AND ARG-2034.

RX MEDLINE-9834662; PubMed-9668111;

RA Hammami-Hausali N., Schumann N., Raghunath M., Kilgus O., Luethi U., Luger T., Bruckner-Tuderman L.;

RT "Some, but not all, glycine substitution mutations in COL7A1 result in intracellular accumulation of collagen VII, loss of anchoring fibrils, and skin blistering.;"

RL J. Biol. Chem. 273:19228-19234(1998).

RN [21]

RP VARIANTS DEB CYS-2008; ARG-2207 AND SER-2775.

RX MEDLINE-98410965; PubMed-9740253;

RA Kon A., Pulkkinen L., Ishida-Yamamoto A., Hashimoto I., Uitto J.;

RT "Novel COL7A1 mutations in dystrophic forms of epidermolysis bullosa.;"

RL J. Invest. Dermatol. 111:534-537(1998).

RN [22]

RP VARIANT DEB ARG-1347.

RX MEDLINE-99019477; PubMed-9804332;

RA Terracina M., Posteraro P., Schubert M., Sonego G., Atzori F., Zambruno G., Bruckner-Tuderman L., Castiglia D.;

RT "Compound heterozygosity for a recessive glycine substitution and a splice site mutation in the COL7A1 gene causes an unusually mild form of localized recessive dystrophic epidermolysis bullosa.;"

RL J. Invest. Dermatol. 111:744-750(1998).

RN [23]

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OY 52 NGMCLGPGACVPGRDSFGANVTPGTGPGRDFKGEKGE 92

DB 1830 -----GKPGDKRGLGNKNGRGECDGEGRKGEKED 1861

RESULT 13


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FT CONFLICT 195 195 T -> Q (IN REF. 4).
FT CONFLICT 215 215 S -> A (IN REF. 4).
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FT CONFLICT 251 251 P -> A (IN REF. 4).
FT CONFLICT 251 251 Q -> T (IN REF. 4).
FT CONFLICT 258 258 T -> S (IN REF. 4).
FT CONFLICT 261 261 G -> P (IN REF. 5).
FT CONFLICT 492 492 G -> P (IN REF. 5).
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DB 573 VFCNNEGETCYTPNPASVPKKNMWSKSKDKKHIMFGETTINGGFHSYGD--MLAPNT 630
OY 125 ---ECTFTKMSNSALRYLFGSLRLKRCRNACCQRMWFTFNGAECSGPLPEAIITYLDG 181
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OY 182 SPENNSTINIHRTSVESGICEG 203
DB 664 AGNLKALLIOGSNDVEIRAE 685

RESULT 15
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DT 21-JUL-1986 (Rel. 01, Created)
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DT 28-FEB-2003 (Rel. 41, Last annotation update)
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OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
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OX NCBI_TaxID=10116;
RN NM
RP SEQUENCE OF 1-19.
RX MEDLINE=69155173; PubMed=5777344;
RA Bornstein P.;
RT "Comparative sequence studies of rat skin and tendon collagen. II.
RT The absence of a short sequence at the amino terminus of the skin
RT alpha 1 chain."
RL Biochemistry 8:63-71(1969).
RN NM
RP SEQUENCE OF 5-19.
RX MEDLINE=67162268; PubMed=5337886;
RA Kang A.H., Bornstein P., Piez K.A.;
RT "The amino acid sequence of peptides from the cross-linking region of
RT rat skin collagen."
RL Biochemistry 6:788-795(1967).
RN NM
RP SEQUENCE OF 20-55.
RX MEDLINE=67165368; PubMed=4290711;
RA Bornstein P.;
RT "The incomplete hydroxylation of individual prolyl residues in
RT collagen."
RL J. Biol. Chem. 242:2572-2574(1967).
RN NM
RP SEQUENCE OF 56-102.
RX MEDLINE=71263178; PubMed=4327399;
RA Butler W.T., Ponds S.L.;
RT "Chemical studies on the cyanogen bromide peptides of rat skin
RT collagen. Amino acid sequence of alpha 1-CB4."
RL Biochemistry 10:2076-2081(1971).

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RN NM
RP SEQUENCE OF 103-139.
RX MEDLINE=70085124; PubMed=5411206;
RA Butler W.T.;
RT "Chemical studies on the cyanogen bromide peptides of rat skin
RT collagen. The covalent structure of alpha 1-CB5, the major
RT hexose-containing cyanogen bromide peptide of alpha 1."
RL Biochemistry 9:44-50(1970).
RN NM
RP SEQUENCE OF 140-238.
RX MEDLINE=72136131; PubMed=4335087;
RA Ballian G., Click E.M., Bornstein P.;
RT "Structure of rat skin collagen alpha 1-CB8. Amino acid sequence of
RT the hydroxylamine-produced fragment HA1."
RL Biochemistry 10:4470-4478(1971).
RN NM
RP SEQUENCE OF 239-418.
RX MEDLINE=73006942; PubMed=4342027;
RA Ballian G., Click E.M., Hermodson M.A., Bornstein P.;
RT "Structure of rat skin collagen alpha 1-CB8. Amino acid sequence of
RT the hydroxylamine-produced fragment HA2."
RL Biochemistry 11:3798-3806(1972).
RN NM
RP SEQUENCE OF 419-567.
RX MEDLINE=74271984; PubMed=4366532;
RA Butler W.T., Underwood S.P., Finch J.E. Jr.;
RT "Chemical studies on the cyanogen bromide peptides of rat skin
RT collagen. Amino acid sequence of alpha 1-CB3."
RL Biochemistry 13:2946-2953(1974).
RN NM
RP SEQUENCE OF 568-651.
RX MEDLINE=74011954; PubMed=4126850;
RA Stoltz M., Timpl R., Furtmayr H., Kuehn K.;
RT "Structural and immunogenic properties of a major antigenic
RT determinant in neutral salt-extracted rat-skin collagen."
RL Eur. J. Biochem. 37:287-294(1973).
RN NM
RP SEQUENCE OF 651-671.
RX MEDLINE=73049495; PubMed=4636751;
RA Stoltz M., Timpl R., Kuehn K.;
RT "Non-helical regions in rat collagen alpha 1-chain."
RL FEBS Lett. 26:61-65(1972).
RN NM
RP SEQUENCE OF 529-567 FROM N.A.
RX MEDLINE=85122694; PubMed=6395893;
RA Genovese C., Rowe D., Kream B.;
RT "Construction of DNA sequences complementary to rat alpha 1 and alpha
RT 2 collagen mRNA and their use in studying the regulation of type I
RT collagen synthesis by 1,25-dihydroxyvitamin D."
RL Biochemistry 23:6210-6216(1984).
RN NM
RP SEQUENCE OF TYPE I COLLAGEN IS A MEMBER OF GROUP I COLLAGEN
RP (FIBRILLAR FORMING COLLAGEN).
RP -1 SUBUNIT; TRIMERS OF ONE ALPHA 2(I) AND TWO ALPHA 1(I) CHAINS.
RP -1 TISSUE SPECIFICITY: FORMS THE FIBRILS OF TENDON, LIGAMENTS AND
RP BONES. IN BONES THE FIBRILS ARE MINERALIZED WITH CALCIUM
RP HYDROXYAPATITE.
RP -1 PTH: Proline residues at the third position in some or all of the
RP repeating unit (G-X-Y) are hydroxylated in some or all of the
RP chains.
RP -1 PTH: O-linked glycan consists of a Glc-Gal disaccharide bound to
RP the oxygen atom of a post-translationally added hydroxyl group.
RP -----
RP This SWISS-PROT entry is copyright. It is produced through a collaboration
RP between the Swiss Institute of Bioinformatics and the EMBL outstation -
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RP or send an email to license@isb-sib.ch).
RP -----
DR EMBL: M11432; AAA40832.1; ALT_SEQ.
DR InterPro: IPR000087; Collagen.
DR InterPro: IPR001007; VWF_C.

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DR PRODOM: PD000007; Clg_helix; 1.
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 KM Glycoprotein; Collagen; Pyroliadone carboxylic acid.
 FT MOD_RES 1 1 PYROLIDONE CARBOXYLIC ACID (PROBABLE).
 FT MOD_RES 9 9 CONVERTED TO AN ALDEHYDE GROUP THAT IS
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 FT MOD_RES 31 31 HYDROXYLATION (PROBABLE).
 FT MOD_RES 34 34 HYDROXYLATION (PROBABLE).
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 R:Click, E.M.; Bornstein, P.
 Biochemistry 9, 4699-4706, 1970
 A:Title: Isolation and characterization of the cyanogen bromide peptides from the alpha1
 A:Reference number: A90567; MUID:71036625; PMID:5529814
 A:Contents: CNBr0-1, CNBr2, CNBr4, CNBr5
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 A:Experimental source: skin
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 R:Beetge, B.; Notbohm, H.; Diebold, J.; Lehmann, H.; Bodo, M.; Deutzmann, R.; Mueller, F.
 Eur. J. Biochem. 192, 153-159, 1990
 A:Title: A critical crosslink region in human-bone-derived collagen type I. Specific cle
 A:Reference number: S11372; MUID:90382436; PMID:2169412
 A:Accession: S11372
 A:Molecule type: Protein
 A:Residues: 175-187, 274-287, 'P', 289 <BAE>
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 R:Dak, S.B.; Scholz, P.M.; Amenta, P.S.; Constantinou, C.D.; Levi-Minzi, S.A.; Gonzalez
 J. Biol. Chem. 266, 21827-21832, 1991
 A:Title: The substitution of arginine for glycine 85 of the alpha 1(I) procollagen chain
 A:Reference number: I55342; MUID:92042092; PMID:1718984
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 R:Morgan, P.H.; Jacobs, H.G.; Segrest, J.P.; Cunningham, L.W.
 J. Biol. Chem. 245, 5042-5048, 1970
 A:Title: Comparative study of glycopeptides derived from selected vertebrate collagens.
 A:Reference number: A92069; MUID:71001508; PMID:4319110
 A:Accession: A92069
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 A:Note: attachment of 2-O-alpha-D-glucosyl-O-beta-D-galactose to 5-hydroxylysine
 R:Labhard, M.E.; Hollister, D.W.
 Matrix 10, 124-130, 1990
 A:Title: Segmental amplification of the entire helical and telopeptide regions of the CT
 A:Reference number: S15989; MUID:90326017; PMID:2374517
 A:Accession: S15989
 A:Molecule type: mRNA
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 R:Wirtz, M.K.; Rao, V.H.; Granville, R.W.; Labhard, M.E.; Pretorius, P.J.; de Vries, W.N.
 Connect. Tissue Res. 29, 1-11, 1993
 A:Title: A cysteine for glycine substitution at position 175 in an alpha 1 (I) chain of
 A:Reference number: I52905; MUID:93339042; PMID:8339541
 A:Accession: I52905
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 A:Cross-references: GB:564717; NID:9408195; PIDN:AAB27677.1; PID:9408196
 A:Note: mutant sequence from patient with osteogenesis imperfecta
 R:Bernard, M.P.; Chu, M.L.; Myers, J.C.; Ramirez, F.; Eikenberry, E.F.; Prockop, D.J.
 Biochemistry 22, 5213-5223, 1983
 A:Title: Nucleotide sequences of complementary deoxyribonucleic acids for the proalpha1
 A:Reference number: A90476; MUID:84080385; PMID:6669127
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 A:Cross-references: GB:K01228; NID:9180391; PIDN:AA5195.1; PID:9180392
 A:Note: sequence partially completed for missing nucleotides by A29439
 R:Chu, M.L.; Gardino, V.; Williams, C.J.; Ramirez, F.
 J. Biol. Chem. 260, 691-694, 1985
 A:Title: Multixon deletion in an osteogenesis imperfecta variant with increased type II

A:Reference number: A22161; MUID:85104934; PMID:2981843
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 A:Note: the authors translated the codon CGT for residue 595 as Pro
 R:Wallis, G.A.; Starman, B.J.; Zinn, A.B.; Byers, P.H.
 Am. J. Hum. Genet. 46, 1034-1040, 1990
 A:Title: Variable expression of osteogenesis imperfecta in a nuclear family is explai
 A:Reference number: A35336; MUID:90252792; PMID:2339700
 A:Accession: A35336
 A:Molecule type: mRNA
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 R:Forlino, A.; Zolozzi, F.; Valli, M.; Pignatti, P.F.; Cetta, G.; Brunelli, P.C.; Mot
 Hum. Mol. Genet. 3, 2201-2206, 1994
 A:Title: Severe (type III) osteogenesis imperfecta due to glycine substitutions in th
 A:Reference number: I54365; MUID:95187161; PMID:7881420
 A:Accession: I54365
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 R:Chesler, S.D.; Wallis, G.A.; Byers, P.H.
 J. Biol. Chem. 268, 18218-18225, 1993
 A:Title: Mutations in the carboxyl-terminal propeptide of the pro alpha 1(I) chain of
 A:Reference number: A47426; MUID:93352646; PMID:8349697
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 A:Experimental source: fetal cell 88-251
 R:Cohn, D.H.; Apone, S.; Eyre, D.R.; Starman, B.J.; Andreassen, P.; Charbonneau, H.;
 J. Biol. Chem. 263, 14605-14607, 1988
 A:Title: Substitution of Cysteine for Glycine within the Carboxyl-terminal Telopeptid
 A:Reference number: I55269; MUID:89008319; PMID:3170557
 A:Accession: I55269
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 A:Note: mutant sequence from a patient with mild osteogenesis imperfecta
 R:Meckelae, J.K.; Raassina, M.; Virta, A.; Vuorio, E.
 Nucleic Acids Res. 16, 349, 1988
 A:Title: Human pro-alpha-1(I) collagen: cDNA sequence for the C-propeptide domain.

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 A:Hum. Genet. 49, 545-554, 1991
 A:Title: Sequence and localization of a partial cDNA encoding the human alpha3 chain of A:Reference number: A39786; MUID:91353570; PMID:1862840
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 A:Molecule type: mRNA
 A:Residues: 1453-1593, 'A', 1595-1670 <MOR>
 A:Cross-references: GB:S55790; NID:9234418; PIDN:AAH1637.1; PID:g234419
 C:Comment: Prolines and lysines at the third position of the tripeptide repeating unit (ed and subsequently O-glycosylated).
 C:Comment: In Goodpasture's syndrome, an autoimmune response develops against an epitope C:Genetics:
 A:Gene: GDB:COL4A3
 A:Cross-references: GDB:128351; OMIM:120070
 A:Map position: 2q36-2q37
 A:Insertions: 1385/1, 1418/1, 1488/1, 1547/2; 1585/3; 1643/2 #status incomplete
 A>Note: the alpha 3(IV) and alpha 4(IV) chain genes are encoded on opposite strands with C:Complex: This minor type IV collagen is thought to form a heterotrimer of two alpha 3 monomer trimers amino-terminal domains (with disulfide and desmosine cross-links), dimeric dimer associations in the interrupted helical domain (with disulfide and desmosine cross-links) C:Function:
 A:Description: minor structural component of extracellular basement membrane in kidney
 C:Superfamily: collagen alpha 1(IV) chain
 C:Keywords: alternative splicing; basement membrane; cell binding; coll; coll; extracel F:1-28/Domain: signal sequence #status predicted <SIG>
 F:29-1670/Product: collagen alpha 3(IV) chain, long splice form #status predicted <MAT>
 F:29-42/Domain: amino-terminal nonhelical, NHI <NHI>
 F:43-1438/Region: interrupted helical
 F:91-793/Region: cell attachment (R-G-D) motif
 F:996-998/Region: cell attachment (R-G-D) motif
 F:1154-1156/Region: cell attachment (R-G-D) motif
 F:1306-1308/Region: cell attachment (R-G-D) motif
 F:1345-1347/Region: cell attachment (R-G-D) motif
 F:1432-1434/Region: cell attachment (R-G-D) motif
 F:1439-1670/Domain: carboxyl-terminal nonhelical, NCI <NCI>
 F:1451-1551/Domain: collagen IV carboxyl-terminal repeat <CRT>
 F:1561-1665/Domain: collagen IV carboxyl-terminal repeat <CRT>
 F:21, 33, 39, 41, 125, 422, 476, 479, 682, 722, 809, 1387/Disulfide bonds: Interchain #status predicted
 F:253/Binding site: carbohydrate (Asn) (covalent) #status predicted
 F:1460-1548, 1493-1551/Disulfide bonds: (or 1460-1551, 1493-1548) #status predicted
 F:1505-1511, 1616-1622/Disulfide bonds: #status predicted
 F:1570-1662, 1604-1665/Disulfide bonds: (or 1570-1665, 1604-1662) #status predicted

Query Match 8.9% Score 116; DB 1; Length 1670;
 Best Local Similarity 35.1%; Pred. No. 0.055;
 Matches 33; Conservative 6; Mismatches 37; Indels 18; Gaps 3;

OY 5 GPAAAPORLGLLLLLLPAPSSASEIPKGRKAKLRQREVVVDLYNGMCLGPAGVPG 64
 Db 467 GPRGEP-----GLCTGCPYIPGPPGLGLGLGHSVGIPR-----GAGAGLKG 511
 OY 65 RQGSPPANVIRPGIPGRD---GFGGEGECIR 95
 Db 512 SPSPGNTGLPFPFGPAGDGLKGEKGTQL 545

RESULT 9
 CGH4B
 collagen alpha 1(IV) chain precursor - human
 N:Alternate names: procollagen alpha 1(IV) chain
 C:Species: Homo sapiens (man)
 C:Date: 28-May-1986 #sequence revision 31-Dec-1992 #text change 07-Dec-1999
 C:Accession: S16876; A32117; S02738; S00048; S25826; A23115; S00207; S39614; A02863; A58
 R:Solinen, R.; Huotari, M.; Ganguly, A.; Prockop, D.J.; Tryggvason, K.
 J. Biol. Chem. 264, 13565-13571, 1989
 A:Title: Structural organization of the gene for the alpha-1 chain of human type IV coll
 A:Reference number: S16876; MUID:89340433; PMID:2701944
 A:Accession: S16876
 A:Status: nucleic acid sequence not shown; translation not shown
 A:Molecule type: DNA

A:Residues: 1-1669 <SO11>
 A:Cross-references: EMBL:J04217; GB:J05039; NID:9180800; PIDN:AAA53098.1; PID:g180803
 A>Note: The nucleotide sequence was submitted to the EMBL Data Library, October 1988
 R:Solinen, R.; Huotari, M.; Hostikka, S.L.; Prockop, D.J.; Tryggvason, K.
 J. Biol. Chem. 263, 17217-17220, 1988
 A:Title: The structural genes for alpha1 and alpha2 chains of human type IV collagen
 A:Reference number: A92690; MUID:89034231; PMID:3182844
 A:Accession: A32117
 A:Molecule type: DNA
 A:Residues: 1-28 <SO12>
 A:Cross-references: EMBL:J04217; NID:9180759; PIDN:AAA53097.1; PID:g553233
 R:Poersch, E.; Pollner, R.; Kuehn, K.
 EMBL J. 7, 2687-2695, 1988
 A:Title: The genes for the alpha1(IV) and alpha2(IV) chains of human basement membran
 A:Reference number: S02738; MUID:89030632; PMID:2846280
 A:Accession: S02738
 A:Status: translation not shown
 A:Molecule type: DNA
 A:Residues: 1-6, 'L', '8-28 <POE>
 A:Cross-references: EMBL:X12784; NID:930072
 R:Brazel, D.; Oberhauser, I.; Dieleringer, H.; Babel, W.; Glanville, R.W.; Deutzmann, Eur. J. Biochem. 168, 529-536, 1987
 A:Title: Completion of the amino acid sequence of the alpha1 chain of human basement
 A:Reference number: S00048; MUID:88029471; PMID:3311751
 A:Accession: S00048
 A:Molecule type: mRNA
 A:Residues: 1-318, 'A', 320-944 <BRA1>
 A:Cross-references: EMBL:X05561; NID:930066; PIDN:CAA9075.1; PID:g30067
 A:Accession: S25826
 A:Molecule type: protein
 A:Residues: 271-318, 'A', 320-554 <BRA2>
 R:Glanville, R.W.; Qian, R.O.; Siebold, B.; Ristell, J.; Kuehn, K.
 Eur. J. Biochem. 152, 213-219, 1985
 A:Title: Amino acid sequence of the N-terminal aggregation and cross-linking region (A:Reference number: A23115; MUID:86004708; PMID:4043082
 A:Accession: A23115
 A:Molecule type: protein
 A:Residues: 28-236, 'KE', 239-240, 'K', 242-243 <GLA>
 A:Experimental source: placenta
 A>Note: the amino end of the mature form is blocked
 R:Solinen, R.; Haka-Risku, T.; Prockop, D.J.; Tryggvason, K.
 EMBL Lett. 225, 188-194, 1987
 A:Title: Complete primary structure of the alpha(1)-chain of human basement membrane
 A:Reference number: S00207; MUID:88083584; PMID:3691802
 A:Accession: S00207
 A:Molecule type: mRNA
 A:Residues: 244-530 <SO13>
 A:Cross-references: EMBL:Y00706; NID:929548; PIDN:CAA68698.1; PID:g29549
 R:Edle, J.A.; Goldik, R.; Mann, K.; Kuehn, K.
 EMBL J. 12, 4795-4802, 1993
 A:Title: The alpha-1-beta-1 integrin recognition site of the basement membrane collag
 A:Reference number: S39614; MUID:84038963; PMID:8223468
 A:Accession: S39614
 A:Molecule type: protein
 A:Residues: 371-554 <EBL>
 R:Babel, W.; Glanville, R.W.
 Eur. J. Biochem. 143, 545-556, 1984
 A:Title: Structure of human basement-membrane (type IV) collagen. Complete amino-acid
 A:Reference number: A02863; MUID:85003628; PMID:6434307
 A:Accession: A02863
 A:Molecule type: protein
 A:Residues: 534-718, 'D', 720-836, 'Y', 838-841, 'P', 843-903, 'O', 905-913, 'K', 915-997, 'K', 9
 A:Experimental source: placenta
 R:Glanville, R.W.; Rauter, A.
 Hoppe-Seyler's Z. Physiol. Chem. 362, 943-951, 1981
 A:Title: Peptide fragments of human placental basement-membrane collagens showing inte
 A:Reference number: S16908; MUID:82005835; PMID:6792033
 A:Accession: A58517
 A:Molecule type: protein
 A:Residues: 534-537, 'G', 539, 'G', 541-542, 'X', 544-553, 1389-1405, 'XX', 1408-1409, 'X', 1411
 R:McWhright, R.S.; Benson, V.A.; Lovellio, K.T.; van der Nest, M.; Fietzek, P.P.
 Biochemistry 22, 4940-4948, 1983
 A:Title: Isolation and characterization of pepsin-solubilized human basement membrane

R;Seyer, J.M.; Kang, A.H.
 Biochemistry 16, 1158-1164, 1977
 A:Title: Covalent structure of collagen: amino acid sequence of cyanogen bromide peptide
 A:Reference number: A90399; MUID:77134724; PMID:557335
 A:Accession: A90399
 A:Molecule type: protein
 A:Residues: 'V', 169-225, 229-232, 'P', 234-292, 'D', 294-398 <SEV1>
 A:Experimental source: liver
 A:Note: sequence corrected by A94562; attachment of 2-O-alpha-D-glucosyl-O-beta-D-galact
 R;Seyer, J.M.
 submitted to the Atlas, December 1977
 A:Reference number: A94562
 A:Accession: A94562
 A:Molecule type: protein
 A:Residues: 'V', 169-225, 229-277, 'A', 279-292, 'D', 294, 'S', 296-398 <SEV2>
 A:Experimental source: liver
 A:Note: author submitted corrections to A90399
 R;Hilewicz, D.M.; Witz, A.M.; Smith, A.C.; Manchester, D.K.; Waldstein, G.; Byers, P.H.
 Am. J. Hum. Genet. 53, 62-70, 1993
 A:Title: Parental somatic and germ-line mosaicism for a multexon deletion with unusual
 ispring.
 A:Reference number: 151868; MUID:93304430; PMID:8317500
 A:Accession: 151868
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 186-194 <MIL>
 A:Cross-references: GB:S62925; NID:g386425; PIDN:AAD13937.1; PID:g4261637
 R;Chiodo, A.A.; Silience, D.O.; Cole, W.G.; Bateman, J.F.
 Biochem. J. 311, 939-943, 1995
 A:Title: Abnormal type III collagen produced by an exon-17-skipping mutation of the COL3
 A:Reference number: 559511; MUID:96067614; PMID:7487954
 A:Accession: 559511
 A:Molecule type: mRNA
 A:Residues: 302-423 <CH1>
 A:Cross-references: GB:S79877; NID:g1195576; PIDN:AAB5615.1; PID:g1195577
 R;Seyer, J.M.; Kang, A.H.
 Biochemistry 17, 3404-3411, 1978
 A:Title: Covalent structure of collagen: amino acid sequence of five consecutive CNBr pe
 A:Reference number: A90414; MUID:79000343; PMID:687591
 A:Accession: A90414
 A:Molecule type: protein
 A:Residues: 399-675, 'N', 677-727 <SEV3>
 A:Experimental source: liver
 R;Lee, B.; Vitale, E.; Superli-Furga, A.; Steinmann, B.; Ramirez, F.
 J. Biol. Chem. 266, 5256-5259, 1991
 A:Title: G to T transversion at position +5 of a splice donor site causes skipping of th
 A:Reference number: 155349; MUID:91161621; PMID:1672129
 A:Accession: 155349
 A:Status: translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 537-605 <LEE>
 A:Cross-references: GB:M59312; NID:g180815; PIDN:AAA52041.1; PID:g180816
 R;Seyer, J.M.; Mainardi, C.; Kang, A.H.
 Biochemistry 19, 1583-1589, 1980
 A:Title: Covalent structure of collagen: amino acid sequence of alpha (III)-CB5 from ty
 A:Reference number: A90438; MUID:80198282; PMID:6246925
 A:Accession: A90438
 A:Molecule type: protein
 A:Residues: 728-895, 'A', 897-964 <SEV4>
 A:Experimental source: liver
 R;Cole, W.G.; Chiodo, A.A.; Lamande, S.R.; Janeczko, R.; Ramirez, F.; Dahl, H.H.M.; Chan
 J. Biol. Chem. 265, 17070-17077, 1990
 A:Title: A base substitution at a splice site in the COL3A1 gene causes exon skipping an
 A:Reference number: A38303; MUID:91009133; PMID:2145268
 A:Accession: A38303
 A:Molecule type: mRNA
 A:Residues: 861-1015 <COL>
 A:Cross-references: GB:J05617; GB:M55603; GB:M59227; NID:g180878; PIDN:AAB59383.1; PID:g
 R;Manote, B.S.; Dalgleish, R.
 Nucleic Acids Res. 16, 2337, 1988
 A:Title: Human pro alpha1(III) collagen: cDNA sequence for the 3' end.
 A:Reference number: 502119; MUID:88189827; PMID:3357782

A:Accession: 502119
 A:Status: translation not shown
 A:Molecule type: mRNA
 A:Residues: 950-1018, 'Y', 1020-1183, 'S', 1185-1466 <MAN>
 A:Cross-references: EMBL:X06700; NID:g30053; PIDN:CAA29886.1; PID:g30054
 R;Seyer, J.M.; Kang, A.H.
 Biochemistry 20, 2621-2627, 1981
 A:Title: Covalent structure of collagen: amino acid sequence of alpha (III)-CB9 from
 A:Reference number: A90446; MUID:81208139; PMID:7016180
 A:Accession: A90446
 A:Molecule type: protein
 A:Residues: 965-979, 'A', 981-984, 'PS', 987, 'QN', 990-1096, 'P', 1098-1152, 'AT', 1155, 'S', 11
 A:Experimental source: liver
 R;Loidl, H.R.; Brinker, J.M.; May, M.; Phlajaniemi, T.; Morrow, S.; Rosenbloom, J.;
 Nucleic Acids Res. 12, 9383-9394, 1984
 A:Title: Molecular cloning and carboxyl-propeptide analysis of human type III procoll
 A:Reference number: A93551; MUID:85087944; PMID:6096827
 A:Accession: A93551
 A:Molecule type: mRNA
 A:Residues: 1065-1155, 'P', 1157-1466 <LO1>
 A:Cross-references: EMBL:X01655; EMBL:X01742; NID:g29584; PIDN:CAA25821.1
 R;Miskulin, M.; Dalgleish, R.; Kluge-Beckerman, B.; Rennard, S.I.; Tolstoshev, P.; Br
 Biochemistry 25, 1408-1413, 1986
 A:Title: Human type III collagen gene expression is coordinately modulated with the t
 A:Reference number: 152393; MUID:86187804; PMID:3754462
 A:Accession: 152393
 A:Status: translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1161-1200 <MIS>
 A:Cross-references: GB:M13146; NID:g180415; PIDN:AAA52003.1; PID:g180416
 R;Emmanuel, B.S.; Camilizaro, L.A.; Seyer, J.M.; Myers, J.C.
 Proc. Natl. Acad. Sci. U.S.A. 82, 3385-3389, 1985
 A:Title: Human alpha 1(III) and alpha 2(V) procollagen genes are located on the long
 A:Reference number: 159025; MUID:85216505; PMID:3858826
 A:Accession: 159025
 A:Status: translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1165-1196 <EMA>
 A:Cross-references: GB:M11134; NID:g180417; PIDN:AAA52004.1; PID:g180418
 R;Chu, M.L.; Weil, D.; de Wet, W.; Bernard, M.; Slepola, M.; Ramirez, F.
 J. Biol. Chem. 260, 4357-4363, 1985
 A:Title: Isolation of cDNA and genomic clones encoding human pro-alpha(III) collagen
 A:Reference number: A92516; MUID:85157600; PMID:2579494
 A:Accession: A92516
 A:Molecule type: DNA
 A:Residues: 1176-1240, 'V', 1242-1356, 'P', 1358-1466 <CHU>
 A:Cross-references: GB:M10615; GB:M10793; GB:M10794; GB:M10795; GB:M10796; GB:M10797;
 A:Experimental source: liver
 A:Note: the authors translated the codon TTC for residue 1057 as Tyr; the codons give
 ation
 C:Comment: Prolines and lysines at the third position of the tripeptide repeating unit
 3-hydroxylated. About 15% of the lysines are 5-hydroxylated and some are subsequentl
 C:Genetics:
 A:Gene: GDB:COL3A1
 A:Cross-references: GDB:118729; OMIM:120180
 A:Map position: 2q31-2q31
 A:Intons: 27/1; 94/3; 111/3; 149/3; 176/3; 554/3; 587/3; 1175/3; 1275/3; 1337/3; 141
 A:Note: the list of introns is incomplete; defects in this gene can result in Ehlers-D
 C:Complex: type III collagen is a homotrimer of monomers initially linked by disulfid
 er of their length, is formed with desmosine cross-links made from lysine and allysin
 C:Function:
 A:Description: structural component of extracellular fibrous polymer that maintains i
 C:Superfamily: collagen alpha 1(I) chain; fibrillar collagen carboxyl-terminal homolo
 C:Keywords: coiled coil; Ehlers-Danlos syndrome; extracellular matrix; glycoprotein;
 F:1-23/Domain: signal sequence #status predicted <SIG>
 F:24-153/Domain: amino-terminal propeptide #status predicted <PRO>
 F:31-91/Domain: von Willebrand factor type C repeat homology <WVC>
 F:154-1221/Product: collagen alpha 1(III) chain #status predicted <MAT>
 F:154-167/Region: amino-terminal nonhelical telopeptide
 F:168-1196/Region: helical
 F:1091-1093/Region: cell attachment (R-G-D) motif
 F:1197-1221/Region: carboxyl-terminal nonhelical telopeptide
 F:1222-1466/Domain: carboxyl-terminal propeptide #status predicted <CPR>

F:1238-1466/Domain: fibrillar collagen carboxyl-terminal homology <FCC>
 F:24/Modified site: pyrrolidone carboxylic acid (Gln) (in mature form) #status predicted
 F:153-154/Cleavage site: Pro-Gln (procollagen N-endopeptidase) #status predicted
 F:154/Modified site: pyrrolidone carboxylic acid (Gln) (in mature form) #status predicted
 F:161-162/Modified site: lysine (Lys) #status predicted
 F:263-284,860,977,1106/Modified site: 5-hydroxylysine (Lys) #status experimental
 F:263/Binding site: carboxylate (Lys) (covalent) #status experimental
 F:584,1094/Modified site: 5-hydroxylysine (Lys) (partial) #status experimental
 F:948-949/Cleavage site: Gly-Ile (collagenase) #status predicted
 F:1106/Binding site: carboxylate (Lys) (covalent) #status predicted

Query Match 8.8%; Score 115; DB 1; Length 1466;
 Best Local Similarity 36.1%; Pred. No. 0.058;
 Matches 39; Conservative 8; Mismatches 47; Indels 14; Gaps 5;

OY 22 LQLPSSASEIPKQKQALQREVVDLY--NGMCLGPGAGVPRGDSFGANVTPGPG 79
 DB 72 LDCFPN---ETPEGECVAVCPQPTAPTRPPNGGPGQKPDPPGPGIPGNDDPPIPG 127

OY 80 IPGRNGFKGKGECLRESF---EESWTPNYKQCSMSLNYGDLGKIA 124
 DB 128 QPGSPGSPGPGPIC--ESCPGPNYSPQYSDYDVKS---GVAVGGLA 170

RESULT 11

collagen alpha 2(IV) chain precursor - pig roundworm
 C:Species: Ascaris suum (pig roundworm)
 C:Date: 04-Dec-1992 #sequence_revision 04-Dec-1992 #text_change 13-Aug-1999
 C:Accession: S16366
 R:Pettili, J.; Kingston, I.B.
 J. Biol. Chem. 266, 16149-16156, 1991

A:Title: The complete primary structure of a nematode alpha-2(IV) collagen and the part
 A:Reference number: S16366; MUID:91340768; PMID:1714907
 A:Accession: S16366
 A:Molecule type: mRNA
 A:Residues: 1-1763 <DB1>
 A:Cross-references: GB:M67507; NID:g159648; P1DN:AA18014.1; P1D:g159649
 C:Genetics:
 A:Introns: 229/3; 266/3; 305/3; 360/3; 424/1; 489/1; 548/1; 656/3; 790/1; 891/1; 963/1;
 C:Superfamily: collagen alpha 1(IV) chain
 C:Keywords: alternative splicing; basement membrane; cell binding; collod coll; disulfid
 F:1-26/Domain: signal sequence #status predicted <SIG>
 F:27-1763/Product: collagen alpha 2(IV) chain #status predicted <MAT>
 F:27-42/Domain: non-collagenous NH1 #status predicted <COI>
 F:43-1529/Domain: collagenous #status predicted
 F:1530-1763/Domain: carboxyl-terminal nonhelical, NC1 #status predicted <NC1>
 F:1530-1763/Domain: repeat NC1 #status predicted <NC12>
 F:1530-1638/Domain: repeat NC1 #status predicted <NC12>
 F:1639-1763/Domain: repeat NC1 #status predicted <NC12>
 F:31,34,39,41,536,539/Disulfide bonds: Interchain #status predicted
 F:126/Binding site: carboxylate (asn) (covalent) #status predicted
 F:1593-1599,1702-1709/Disulfide bonds: #status predicted

Query Match 8.8%; Score 115; DB 2; Length 1763;
 Best Local Similarity 25.4%; Pred. No. 0.072;
 Matches 66; Conservative 24; Mismatches 94; Indels 76; Gaps 16;

OY 5 GPASPQRRLGILLILLQLPAPSSASEIPKQKQALQREVVDLYNGM-CLQGPAGV 62
 DB 1449 GPMGAP-GRKEKGLPGDGLPGPSG---PPGAGAGR-----DGPQPGMNGEKGGA 1498

OY 63 PGRGSPGANVTPGTPGIPGKDGKFKGKGECLRESF---EESWTPNYKQCS-----W- 111
 DB 1499 PGLGFPPIGPIPGIPGPGIPGPGPGPGPGPGPGPGPGPGPGPGPGPGPGPGPGPG 1558

OY 112 -----SSLNYGDLGKIAECFTFKRSNSALRVLESSSLRLKCRAC-----COR 156
 DB 1359 YSLIYIEGNEKSHMODGSHAGSC-----LSRSTMPFLE-----CDVNVAVYASRNDKSY 1609

OY 157 WYTFNGAECSGPLTEAIIILDOGSPMNSTINIHRTSVEGLCEGIGAGLVDV---AI 213
 DB 1610 WLST-----TAPTPMNV-----SEGIEPIYSKAVCEA-PANVIAVHSQTI 1651

OY 214 WYTCSDYPKGDASTGMNSV 233
 DB 1652 QIPNCPN-----GWNLSL 1663

RESULT 12

hypothetical protein F59E12.12 - Caenorhabditis elegans
 C:Species: Caenorhabditis elegans
 C:Date: 20-Sep-1999 #sequence_revision 20-Sep-1999 #text_change 24-Nov-1999
 C:Accession: T15268
 R:Johnson, D.
 Submitted to the EMBL Data Library, May 1997

A:Description: The sequence of C. elegans cosmid F59E12.
 A:Reference number: 218318
 A:Accession: T15268
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-311 <JOB>
 A:Cross-references: EMBL:AF003386; NID:g2088833; P1D:g2088834; P1DN:AAB54250.1; GSPDB
 A:Experimental source: strain Bristol N2; clone F59E12
 C:Genetics:
 A:Gene: CESP:F59E12.12
 A:Map position: 2
 A:Introns: 24/2
 C:Superfamily: unassigned collagens

Query Match 8.8%; Score 114.5; DB 2; Length 311;
 Best Local Similarity 51.1%; Pred. No. 0.011;
 Matches 23; Conservative 4; Mismatches 13; Indels 5; Gaps 1;

OY 53 GWC-----LQGPAGVPRGDSFGANVTPGTPGIPGKDGKFKGKGE 92
 DB 227 GKCEVNAVAGPSPGPGPGIPGPGDGLGTGPGNPGQDEQGPAGE 271

RESULT 13

hypothetical protein W05B2.1 - Caenorhabditis elegans
 C:Species: Caenorhabditis elegans
 C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 21-Jan-2000
 C:Accession: T26185
 R:Gardner, A.
 Submitted to the EMBL Data Library, October 1996

A:Reference number: Z20166
 A:Accession: T26185
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-304 <WIL>
 A:Cross-references: EMBL:Z81138; P1DN:CA803475.1; GSPDB:GNO0021; CESP:W05B2.1
 A:Experimental source: clone W05B2
 C:Genetics:
 A:Gene: CESP:W05B2.1
 A:Map position: 3
 A:Introns: 27/3
 C:Superfamily: unassigned collagens

Query Match 8.8%; Score 114; DB 2; Length 304;
 Best Local Similarity 31.9%; Pred. No. 0.012;
 Matches 29; Conservative 5; Mismatches 25; Indels 32; Gaps 2;

OY 3 PGPASPQRRLGILLILLQLPAPSSASEIPKQKQALQREVVDLYNGMCLQGPAGV 62
 DB 227 PGP-----PPGASPGAPGPGGAG-----APGPGP 254

OY 63 PGRGSPGANVTPGTPGIPGKDGKFKGKGECEC 93
 DB 255 SGAPGPGADNPGAPGPGGSGAGKGC 285

RESULT 14

T26184

RESULT 15
S22917
collagen alpha 5(IV) chain precursor, renal splice form - human
N:Alternate names: procollagen alpha 5(IV) chain
N:Contents: collagen alpha 5(IV) chain precursor, leukocyte splice form
C:Species: Homo sapiens (man)
C:Date: 30-Sep-1993 #sequence-revision 27-Feb-1997 #text-change 21-Jul-2000
C:Accession: S22917; A54365; A57079; A37122; I5311; A34850; S18850; I56971; I76598; A35
R:Zhou, J.; Hertz, J.M.; Leinonen, A.; Tryggvason, K.
J. Biol. Chem. 267, 12475-12481, 1992
A:Title: Complete amino acid sequence of the human alpha-5(IV) collagen chain and identifi
n Alport syndrome patient.
A:Reference number: S22917; MUID:92316923; PMID:1352287
A:Accession: S22917
A:Molecule type: mRNA
A:Residues: 1-967 <ZHO>
A:Cross-references: GB:90464; NID:g180826; PIND:AAA52046.1; PID:g553234
R:Zhou, J.; Leinonen, A.; Tryggvason, K.
J. Biol. Chem. 269, 6608-6614, 1994
A:Title: Structure of the human type IV collagen COL4A5 gene.
A:Reference number: A54365; MUID:94165045; PMID:8120014
A:Accession: A54365
A:Molecule type: DNA
A:Residues: 1-922 <ZH2>
A:Cross-references: GB:U04470; NID:g463378; GB:U04520; NID:g463428; PIND:AAC27816.1; PIND
R:Zhou, J.; Mochizuki, T.; Smeets, H.; Aultgnac, C.; Laurila, P.; de Paep, A.; Tryggvas
Science 261, 1167-1169, 1993
A:Title: Deletion of the paired and alpha5(IV) collagen genes in inherited sm
A:Reference number: A57079; MUID:93361972; PMID:8356449
A:Accession: A57079
A:Molecule type: DNA
A:Residues: 1-27 <ZHA>
A:Cross-references: GB:Z37153; NID:g587203; PIND:CAA85512.1; PID:g587204
R:Philaftanemi, T.; Pohjolainen, E.R.; Myers, J.C.
J. Biol. Chem. 265, 13758-13766, 1990
A:Title: Complete primary structure of the triple-helical region and the carboxyl-terminu
A:Reference number: A37122; MUID:90337990; PMID:2380186
A:Accession: A37122
A:Molecule type: mRNA
A:Residues: 84-439, 'GS', 442-624, 'TALQ', 629-666, 'FR', 669-887, 'R', 889-1264, 1271-1691 <PIN
A:Cross-references: GB:J05558; EMBL:M58526; NID:g1314209

A:Note: submitted to the EMBL Data Library, February 1991
A:Note: the authors translated the codon GCC for residue 115 as Val
R:Reichert, A.; Seftl, M.; Myers, J.C.; Philajantemi, T.; Massella, L.; Rizzoni, G.; De Hum, M.O. Genet. 1, 127-129, 1992
A:Title: De novo mutation in the COL4A5 gene converting glycine 325 to glutamic acid
A:Reference number: 154317; MUID:9324472; PMID:1353780
A:Accession: 154317
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 313-324, 'E', 326-330 <REN>
A:Cross-references: GB:S59334; NID:g299946; PIDN:AAD13909.1; PID:g4261609
R:Hostalka, S.L.; Eddy, R.L.; Byers, M.G.; Hoeyhtye, M.; Shows, T.B.; Trygvason, K. Proc. Natl. Acad. Sci. U.S.A. 87, 1606-1610, 1990
A:Title: Identification of a distinct type IV collagen alpha chain with restricted ki
A:Reference number: A34850; MUID:90160375; PMID:1689491
A:Accession: A34850
A:Molecule type: mRNA
A:Residues: 914-1264, 1271-1691 <HOS>
A:Cross-references: EMBL:M31115; NID:g180824; PIDN:AA52045.1; PID:g180825
R:Zhou, J.; Hostalka, S.L.; Chow, L.T.; Trygvason, K. Genomics 9, 1-9, 1991
A:Title: Characterization of the 3' half of the human type IV collagen alpha-5 gene t
A:Reference number: A37969; MUID:91169491; PMID:2004755
A:Accession: 518850
A:Molecule type: DNA
A:Residues: 924-1264, 1271-1691 <ZH3>
A:Cross-references: EMBL:M63455; EMBL:M63456; EMBL:M63457; EMBL:M63458; EMBL:M63459;
8; EMBL:M63470; EMBL:M63471; EMBL:M63472; EMBL:M63473; NID:g177922; PIDN:AA51558.1;
R:Guo, C.; Van Damme, B.; Van Damme-Lombaerts, R.; Van den Berghe, H.; Cassiman, J.J. Kidney Int. 44, 1316-1321, 1993
A:Title: Differential splicing of COL4A5 mRNA in kidney and white blood cells: a comp
A:Reference number: 156971; MUID:9413540; PMID:8301933
A:Accession: 156971
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1258-1276 <GUO1>
A:Cross-references: GB:S69168; NID:g545095; PIDN:AAC60612.1; PID:g545096
A:Note: kidney splice form
A:Accession: 176598
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1284-1291, 'PFLGYLACY', <GUO2>
A:Cross-references: GB:S69169; NID:g545097; PIDN:AAC60613.1; PID:g545098
A:Note: frameshift mutation in patient with Alport syndrome
R:Myers, J.C.; Jones, T.A.; Poliojanena, E.R.; Kadri, A.S.; Goddard, A.D.; Sheer, D.; Am, J. Hum. Genet. 46, 1024-1033, 1990
A:Title: Molecular cloning of alpha5(IV) collagen and assignment of the gene to the r
A:Reference number: A35335; MUID:90252791; PMID:2339659
A:Accession: A35335
A:Status: nucleic acid sequence not shown
A:Molecule type: mRNA
A:Residues: 1448-1477 <MYE>
R:Nakazoto, H.; Battlori, S.; Ushijima, T.; Matsuur, T.; Koltabashl, Y.; Takada, T.; Kidney Int. 46, 1307-1314, 1994
A:Title: Mutations in the COL4A5 gene in Alport syndrome: a possible mutation in prim
A:Reference number: 156975; MUID:95156893; PMID:7853788
A:Accession: 156975
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1595-1602 <NAK>
A:Cross-references: GB:S75903; NID:g913882; PIDN:AAB33374.1; PID:g913883
A:Note: premature termination mutation from a patient with Alport syndrome; one other
R:Leimku, H.H.; Schroeder, C.H.; Brunner, H.G.; Nelen, M.R.; Zhou, J.; Trygvason, K. Genomics 17, 485-489, 1993
A:Title: Identification of four novel mutations in the COL4A5 gene of patients with A
A:Reference number: 154188; MUID:94010948; PMID:8406458
A:Accession: 154188
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1604-1607, 'VHDAKVC', <LEM>
A:Cross-references: GB:S65767; NID:g425563; PIDN:AD13967.1; PID:g4261667
A:Note: frameshift mutation from a patient with Alport syndrome; five other mutations
A:Comment: Prolines and lysines at the third position of the tripeptide repeating unit

ed and subsequently O-glycosylated.

C:Genetics:

A:Gene: GDB:COL4A5; ATS

A:Cross-references: GDB:120596; OMIM:303630

A:Map position: Xq22-Xq22

A:Introns: 27/3; 47/3; 77/3; 92/3; 107/3; 128/3; 146/3; 155/3; 182/3; 203/3; 215/3; 229/3; 799/1; 837/1; 893/1; 923/1; 973/1; 1006/1; 1036/1; 1082/3; 1125/1; 1152/1; 1165/1

A:Note: the alpha 5(IV) and alpha 6(IV) chain genes are encoded on opposite strands with

C:Complex: this minor type IV collagen is thought to form a heterotrimer of two alpha 5

monomer amino-terminal domains (with disulfide and desmosine cross-links), dimeric

er associations in the interrupted helical domain (with disulfide and desmosine cross-

C:Function:

A:Description: minor structural component of extracellular basement membrane

C:Superfamily: collagen alpha 1(IV) chain

C:Keywords: Alport syndrome; basement membrane; coiled coil; extracellular matrix; glyco

F:1-26/Domain: signal sequence #status predicted <SIG>

F:27-1691/Product: collagen alpha 5(IV) chain, renal splice form #status predicted <MAT1

F:27-1264,1271-1691/Product: collagen alpha 5(IV) chain, leukocyte splice form #status

F:27-41/Domain: amino-terminal nonhelical, NC2 #status predicted <NC2>

F:42-1462/Region: interrupted helical

F:1463-1691/Domain: carboxyl-terminal nonhelical, NC1 #status predicted <NC1>

F:1473-1573/Domain: collagen IV carboxyl-terminal repeat <CT1>

F:1583-1687/Domain: collagen IV carboxyl-terminal repeat <CT2>

F:29,32,38,40,124,451,481,484/Disulfide bonds: Interchain #status predicted

F:125/Binding site: carbohydrate (asn) (covalent) #status predicted

F:1482-1570,1515-1573/Disulfide bonds: (or 1482-1573, 1515-1570) #status predicted

F:1527-1533,1638-1644/Disulfide bonds: #status predicted

F:1592-1684,1626-1687/Disulfide bonds: (or 1592-1687, 1626-1684) #status predicted

Query Match 8.8%; Score 114; DB 1; Length 1691;

Best Local Similarity 35.4%; Pred. No. 0.084;

Matches 34; Conservative 7; Mismatches 39; Indels 16; Gaps 4;

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QY      3  POGPAA--SPQRLGLLILLQLLPAPSSASEIP-----KGKQKAQLRQREYVDLYNGMC 55
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DB     1256 POGPPGRBPGPTGFG-----LPGPEGPCLPGNGIKG-EKGNPGQPGGLGLK 1306
      |||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
QY      56  LOGPAGVGRDSSPGANYPGTPGIPGRDGFKEGK 91
      |||  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
DB     1307 DQGPGLQGNPGRGLNGMGKDPGLGVGFPGMKG 1342
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Search completed: August 13, 2003, 13:28:06

Job time : 40 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 13, 2003, 13:28:12 ; Search time 85 seconds
(without alignments)
453.771 Million cell updates/sec

Title: US-09-938-418-7

Perfect score: 243
Sequence: 1 MRRQGPAPSPQRLLGLLL.....GDASTGWSVSRITIEELPK 243

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 1107863 seqs, 158726573 residues

Word size : 6

Total number of hits satisfying chosen parameters: 6118

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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3	243	100.0	243	22	AAU29206 Human PRO1550 polypept
4	243	100.0	243	22	AAAB87586 Human PRO1550. Ho
5	243	100.0	243	22	AAAB66190 Protein of the Inv
6	243	100.0	243	22	AAAB66211 Protein of the Inv
7	243	100.0	243	23	ABP68636 Human pancreatic c
8	243	100.0	243	23	ABG95811 Human secreted/tra
9	243	100.0	243	23	ABG78938 Human breast tumou

10	243	100.0	243	23	ABB95545
11	243	100.0	243	23	AAE20462
12	243	100.0	243	23	ABB84939
13	243	100.0	243	24	ABU71294
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15	243	100.0	243	24	ABU72012
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20	243	100.0	243	24	ABG75948
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23	243	100.0	243	24	ABU58582
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30	197	81.1	197	23	ABG78940
31	197	81.1	197	24	ABJ37763
32	197	81.1	232	23	ABG78941
33	197	81.1	232	24	ABJ37764
34	170	70.0	210	23	ABG96339
35	170	70.0	243	23	ABG36667
36	170	70.0	243	23	ABG96340
37	170	70.0	243	23	ABJ05554
38	170	70.0	243	23	ABR80978
39	170	70.0	243	24	ABR48227
40	170	70.0	243	24	ABG75758
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ALIGNMENTS

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DT	08-AUG-2000	
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OS	Homo sapiens.	
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PD	09-MAR-2000.	
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PR	02-SEP-1998;	98US-0098843.
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PR	09-SEP-1998;	98US-0099596.
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PR	09-SEP-1998;	98US-0099602.
PR	09-SEP-1998;	98US-0099642.

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PR 10-SEP-1998; 98US-0099741.
PR 10-SEP-1998; 98US-0099754.
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PR 10-SEP-1998; 98US-0099816.
PR 15-SEP-1998; 98US-0100385.
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( GETH ) GENENTECH INC.
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XX WPI: 2000-237871/20.
XX N-PSDB; AAA37123.
XX
XX New mammalian DNA sequences encoding transmembrane, receptor or
XX secreted PRO polypeptides, useful for screening of potential peptide or
XX small molecule inhibitors of the relevant receptor/ligand interactions
XX
XX Claim 12; Fig 204; 773pp; English.
XX
XX AAA37022 to AAA37144 encode the new isolated human transmembrane,
XX receptor or secreted PRO polypeptides given in AA999340 to AA999462. The
XX transmembrane and receptor PRO proteins can be used for screening of
XX potential peptide or small molecule inhibitors of the relevant
XX receptor/ligand interactions. The polypeptides and nucleotide sequences
XX encoding then have various industrial applications, including uses as
XX pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent
XX PCR primers and hybridisation probes used in the isolation of the PRO
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XX
PR 01-SEP-1998; 98US-0098716.
PR 01-SEP-1998; 98US-0098749.
PR 01-SEP-1998; 98US-0098750.
PR 02-SEP-1998; 98US-0098803.
PR 02-SEP-1998; 98US-0098821.
PR 02-SEP-1998; 98US-0098843.
PR 09-SEP-1998; 98US-0099536.
PR 09-SEP-1998; 98US-0099596.
PR 09-SEP-1998; 98US-0099598.
PR 09-SEP-1998; 98US-0099602.
PR 09-SEP-1998; 98US-0099642.
PR 10-SEP-1998; 98US-0099741.
PR 10-SEP-1998; 98US-0099754.
PR 10-SEP-1998; 98US-0099763.
PR 10-SEP-1998; 98US-0099792.
PR 10-SEP-1998; 98US-0099808.
PR 10-SEP-1998; 98US-0099812.
PR 10-SEP-1998; 98US-0099815.
PR 10-SEP-1998; 98US-0099816.
PR 15-SEP-1998; 98US-0100385.
PR 15-SEP-1998; 98US-0100388.
PR 15-SEP-1998; 98US-0100390.
PR 15-SEP-1998; 98US-0100584.
PR 16-SEP-1998; 98US-0100627.
PR 16-SEP-1998; 98US-0100661.
PR 16-SEP-1998; 98US-0100662.
PR 16-SEP-1998; 98US-0100664.
PR 17-SEP-1998; 98US-0100683.
PR 17-SEP-1998; 98US-0100684.
PR 17-SEP-1998; 98US-0100710.
PR 17-SEP-1998; 98US-0100711.
PR 17-SEP-1998; 98US-0100919.
PR 17-SEP-1998; 98US-0100930.
PR 18-SEP-1998; 98US-0100848.
PR 18-SEP-1998; 98US-0100849.
PR 18-SEP-1998; 98US-0101014.

PR 18-SEP-1998; 98US-0101068.
PR 18-SEP-1998; 98US-0101071.
PR 22-SEP-1998; 98US-0101279.
PR 23-SEP-1998; 98US-0101471.
PR 23-SEP-1998; 98US-0101472.
PR 23-SEP-1998; 98US-0101474.
PR 23-SEP-1998; 98US-0101475.
PR 23-SEP-1998; 98US-0101476.
PR 23-SEP-1998; 98US-0101477.
PR 23-SEP-1998; 98US-0101479.
PR 24-SEP-1998; 98US-0101738.
PR 24-SEP-1998; 98US-0101741.
PR 24-SEP-1998; 98US-0101743.
PR 24-SEP-1998; 98US-0101915.
PR 24-SEP-1998; 98US-0101916.
PR 29-SEP-1998; 98US-0102207.
PR 29-SEP-1998; 98US-0102240.
PR 29-SEP-1998; 98US-0102307.
PR 29-SEP-1998; 98US-0102330.
PR 29-SEP-1998; 98US-0102331.
PR 30-SEP-1998; 98US-0102484.
PR 30-SEP-1998; 98US-0102487.
PR 30-SEP-1998; 98US-0102570.
PR 30-SEP-1998; 98US-0102571.
PR 30-SEP-1998; 98US-0102571.
PR 01-OCT-1998; 98US-0102684.
PR 02-OCT-1998; 98US-0102685.
PR 06-OCT-1998; 98US-0103258.
PR 06-OCT-1998; 98US-0103449.
PR 07-OCT-1998; 98US-0103449.
PR 07-OCT-1998; 98US-0103678.
PR 07-OCT-1998; 98US-0103315.
PR 07-OCT-1998; 98US-0103328.
PR 07-OCT-1998; 98US-0103395.
PR 07-OCT-1998; 98US-0103396.
PR 07-OCT-1998; 98US-0103401.
PR 08-OCT-1998; 98US-0103633.
PR 08-OCT-1998; 98US-0103679.
PR 08-OCT-1998; 98US-0103711.
PR 08-OCT-1998; 98US-0104257.
PR 14-OCT-1998; 98US-0104257.
PR 20-OCT-1998; 98US-0104967.
PR 20-OCT-1998; 98US-0105000.
PR 20-OCT-1998; 98US-0105002.
PR 21-OCT-1998; 98US-0105104.
PR 22-OCT-1998; 98US-0105169.
PR 22-OCT-1998; 98US-0105266.
PR 26-OCT-1998; 98US-0105633.
PR 26-OCT-1998; 98US-0105694.
PR 27-OCT-1998; 98US-0105807.
PR 27-OCT-1998; 98US-0105881.
PR 27-OCT-1998; 98US-0105882.
PR 27-OCT-1998; 98US-0106062.
PR 28-OCT-1998; 98US-0106023.
PR 28-OCT-1998; 98US-0106029.
PR 28-OCT-1998; 98US-0106030.
PR 28-OCT-1998; 98US-0106032.
PR 28-OCT-1998; 98US-0106033.
PR 28-OCT-1998; 98US-0106178.
PR 29-OCT-1998; 98US-0106248.
PR 29-OCT-1998; 98US-0106384.
PR 29-OCT-1998; 98US-0108500.
PR 30-OCT-1998; 98US-0106464.
PR 03-NOV-1998; 98US-0106856.
PR 03-NOV-1998; 98US-0106905.
PR 03-NOV-1998; 98US-0106919.
PR 03-NOV-1998; 98US-0106932.
PR 03-NOV-1998; 98US-0106934.
PR 10-NOV-1998; 98US-0107783.
PR 17-NOV-1998; 98US-0108775.
PR 17-NOV-1998; 98US-0108779.
PR 17-NOV-1998; 98US-0108787.
PR 17-NOV-1998; 98US-0108788.
```


CC expression in the test sample indicates the presence of a tumour in the
CC mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats
CC and rabbits but are preferably human. The polypeptides can be used to
CC stimulate tumour necrosis factor (TNF) alpha release from human blood,
CC when contacted with it. A specific polypeptide can be used to stimulate
CC the proliferation or differentiation of chondrocyte cells. The PRO
CC proteins can be used to determine the presence of tumours and also
CC susceptibility to tumour development, particularly adrenal, lung, colon,
CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
CC can be used for genetic analysis of individuals with genetic disorders.
XX

SO Sequence 243 AA:

Query Match 100.0%; Score 243; DB 22; Length 243;
Best Local Similarity 100.0%; Pred. No. 5.1e-220;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRQGPAAAPQRLRGLLLLLLPAPSSASEIPKQKQRLQREVVDLYNMCLOGPA 60
DB 1 MRQGPAAAPQRLRGLLLLLLPAPSSASEIPKQKQRLQREVVDLYNMCLOGPA 60
QY 61 GVPGRDGPAGANYIPGPIPGRDGPKGKGEKCELRSEFESWTPNTKQCSWSLNYGIDL 120
DB 61 GVPGRDGPAGANYIPGPIPGRDGPKGKGEKCELRSEFESWTPNTKQCSWSLNYGIDL 120
QY 121 GKIAECTFTKMRNSALRYLFGSLRLKCNACCQRYFTFNGAECGSLPIEATIIYLDQ 180
DB 121 GKIAECTFTKMRNSALRYLFGSLRLKCNACCQRYFTFNGAECGSLPIEATIIYLDQ 180
QY 181 GSEPMNSTINIHRTSSVEGLCEIGAGLDVAIWGTCSDYPRGDASTGMNSVSRITIEE 240
DB 181 GSEPMNSTINIHRTSSVEGLCEIGAGLDVAIWGTCSDYPRGDASTGMNSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 4
AAB87586

ID AAB87586 standard; protein; 243 AA.

AC AAB87586;

DT 15-MAY-2001 (first entry)

DE Human PRO1550.

KW Human; PRO protein; mapping.

OS Homo sapiens.

PN WO200116318-A2.

PD 08-MAR-2001.

PF 24-AUG-2000; 2000WO-US23328.

XX 01-SEP-1999; 99WO-US20111.
PR 15-SEP-1999; 99WO-US21090.
XX 07-DEC-1999; 99US-0169495.
PR 09-DEC-1999; 99US-0170262.
XX 11-JAN-2000; 2000US-0175481.
PR 18-FEB-2000; 2000WO-US04341.
XX 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.
XX 01-MAR-2000; 2000WO-US05601.
PR 03-MAR-2000; 2000US-0187202.
XX 25-APR-2000; 2000US-0199397.
PR 22-MAY-2000; 2000WO-US14042.
XX 05-JUN-2000; 2000US-0209832.

PA (GETH) GENENTECH INC.

XX Baton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Matanabe CK, Wood WI;

XX WPI; 2001-183260/18.

DR N-PSDB; AAF92118.

XX Eighty four nucleic acids encoding PRO polypeptides, useful in
PT molecular biology, including use as hybridization probes, and in
XX chromosome and gene mapping.

PS Claim 12; Fig 122; 278bp; English.

XX The present sequence is a human PRO polypeptide (secreted and
CC transmembrane). The PRO protein, and PRO agonists, PRO antagonists or
CC anti-PRO antibodies are useful for preparation of a medicament useful in
CC the treatment of a condition which is responsive to the PRO protein,
CC agonists, antagonists or anti-PRO antibodies. The PRO protein may also be
CC employed as molecular weight markers for protein electrophoresis. The PRO
CC coding sequence has applications in molecular biology, including use as
XX hybridisation probes, and in chromosome and gene mapping.

SO Sequence 243 AA:

Query Match 100.0%; Score 243; DB 22; Length 243;
Best Local Similarity 100.0%; Pred. No. 5.1e-220;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRQGPAAAPQRLRGLLLLLLPAPSSASEIPKQKQRLQREVVDLYNMCLOGPA 60
DB 1 MRQGPAAAPQRLRGLLLLLLPAPSSASEIPKQKQRLQREVVDLYNMCLOGPA 60
QY 61 GVPGRDGPAGANYIPGPIPGRDGPKGKGEKCELRSEFESWTPNTKQCSWSLNYGIDL 120
DB 61 GVPGRDGPAGANYIPGPIPGRDGPKGKGEKCELRSEFESWTPNTKQCSWSLNYGIDL 120
QY 121 GKIAECTFTKMRNSALRYLFGSLRLKCNACCQRYFTFNGAECGSLPIEATIIYLDQ 180
DB 121 GKIAECTFTKMRNSALRYLFGSLRLKCNACCQRYFTFNGAECGSLPIEATIIYLDQ 180
QY 181 GSEPMNSTINIHRTSSVEGLCEIGAGLDVAIWGTCSDYPRGDASTGMNSVSRITIEE 240
DB 181 GSEPMNSTINIHRTSSVEGLCEIGAGLDVAIWGTCSDYPRGDASTGMNSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 5

AAB66190

ID AAB66190 standard; protein; 243 AA.

AC AAB66190;

DT 02-APR-2001 (first entry)

DE Protein of the invention #102.

KW Secreted; transmembrane; gene therapy.

OS Unidentified.

PN WO200078961-A1.

PD 28-DEC-2000.

PF 18-FEB-2000; 2000WO-US04342.

XX 23-JUN-1999; 99US-0141037.
PR 20-JUL-1999; 99US-0144758.
XX 26-JUL-1999; 99US-0145698.

01-SEP-1999; 99WO-US20111.
 PR 29-OCT-1999; 99US-0162506.
 PR 30-NOV-1999; 99WO-US28313.
 PR 02-DEC-1999; 99WO-US28551.
 PR 16-DEC-1999; 99WO-US30095.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00376.
 XX
 XX (GETH) GENENTECH INC.
 XX
 PI Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;
 PI Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
 PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D;
 PI Watanabe CK, Williams PM, Wood WI;
 XX
 XX WPI: 2001-071395/08.
 XX
 PR Secreted and transmembrane proteins and nucleic acids designated PRO,
 PR useful as hybridization probes, in chromosome and gene mapping and gene
 PR therapy -
 XX
 PS Claim 1; Fig 204; 787pp; English.
 XX
 CC The present invention relates to secreted and transmembrane proteins.
 CC These proteins and the DNA encoding them may be used as hybridization
 CC probes, in chromosome and gene mapping and in the generation of
 CC anti-sense RNA and DNA. They may also be used to generate either
 CC transgenic animals or knockout animals which are in turn useful for
 CC development and screening of therapeutically useful reagents.
 CC The nucleic acids may also be used in gene therapy.
 CC
 XX
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 243; DB 22; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5.1e-220;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPOGPASPORLRLGLLLLLQLPAPSSASEIRPKQKQALRQREVVDLYNGMCLQSPA 60
 DB 1 MRPOGPASPORLRLGLLLLLQLPAPSSASEIRPKQKQALRQREVVDLYNGMCLQSPA 60
 QY 61 GVPGRDGPANVITPGTIGRDFGKGEKCECLRESPEESWTNPKCCSSSLNYGIDL 120
 DB 61 GVPGRDGPANVITPGTIGRDFGKGEKCECLRESPEESWTNPKCCSSSLNYGIDL 120
 QY 121 GKIACTFTKMRNSALRVLFSGSLRLKCRNACCQRYFTFNGACSGPLPTEAITIYLDQ 180
 DB 121 GKIACTFTKMRNSALRVLFSGSLRLKCRNACCQRYFTFNGACSGPLPTEAITIYLDQ 180
 QY 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
 DB 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
 QY 241 LPK 243
 DB 241 LPK 243
 XX
 XX RESULT 6
 XX AAB66211
 XX ID AAB66211 standard; protein; 243 AA.
 XX
 XX AAB66211;
 XX
 XX 02-APR-2001 (first entry)
 XX
 XX Protein of the invention #123.
 XX
 XX Secreted; transmembrane; gene therapy.
 XX
 XX Unidentified.
 XX
 XX W0200078961-AI.

XX
 PD 28-DEC-2000.
 XX
 XX 18-FEB-2000; 2000WO-US04342.
 XX
 PF 23-JUN-1999; 99US-0141037.
 PR 20-JUL-1999; 99US-0144758.
 PR 26-JUL-1999; 99US-0145698.
 PR 01-SEP-1999; 99WO-US20111.
 PR 29-OCT-1999; 99US-0162506.
 PR 30-NOV-1999; 99WO-US28313.
 PR 02-DEC-1999; 99WO-US28551.
 PR 16-DEC-1999; 99WO-US30095.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00376.
 XX
 XX (GETH) GENENTECH INC.
 XX
 PI Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S;
 PI Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
 PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D;
 PI Watanabe CK, Williams PM, Wood WI;
 XX
 XX WPI: 2001-071395/08.
 XX
 PR Secreted and transmembrane proteins and nucleic acids designated PRO,
 PR useful as hybridization probes, in chromosome and gene mapping and gene
 PR therapy -
 XX
 PS Claim 1; Fig 246; 787pp; English.
 XX
 CC The present invention relates to secreted and transmembrane proteins.
 CC These proteins and the DNA encoding them may be used as hybridization
 CC probes, in chromosome and gene mapping and in the generation of
 CC anti-sense RNA and DNA. They may also be used to generate either
 CC transgenic animals or knockout animals which are in turn useful for
 CC development and screening of therapeutically useful reagents.
 CC The nucleic acids may also be used in gene therapy.
 CC
 XX
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 243; DB 22; Length 243;
 Best Local Similarity 100.0%; Pred. No. 5.1e-220;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPOGPASPORLRLGLLLLLQLPAPSSASEIRPKQKQALRQREVVDLYNGMCLQSPA 60
 DB 1 MRPOGPASPORLRLGLLLLLQLPAPSSASEIRPKQKQALRQREVVDLYNGMCLQSPA 60
 QY 61 GVPGRDGPANVITPGTIGRDFGKGEKCECLRESPEESWTNPKCCSSSLNYGIDL 120
 DB 61 GVPGRDGPANVITPGTIGRDFGKGEKCECLRESPEESWTNPKCCSSSLNYGIDL 120
 QY 121 GKIACTFTKMRNSALRVLFSGSLRLKCRNACCQRYFTFNGACSGPLPTEAITIYLDQ 180
 DB 121 GKIACTFTKMRNSALRVLFSGSLRLKCRNACCQRYFTFNGACSGPLPTEAITIYLDQ 180
 QY 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
 DB 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
 QY 241 LPK 243
 DB 241 LPK 243
 XX
 XX RESULT 7
 XX ABP68636
 XX ID ABP68636 standard; protein; 243 AA.
 XX
 XX ABP68636;
 XX
 XX 14-JAN-2003 (first entry)

XX DE Human pancreatic cancer expressed protein SEQ ID NO 4559.
XX KM Human; pancreas; cancer; gene therapy; vaccine; immunostimulant;
XX KM cytostatic; tumour.
XX OS Homo sapiens.
XX PN WO200260317-A2.
XX PD 08-AUG-2002.
XX PF 30-JAN-2002; 2002WO-US02781.
XX PR 30-JAN-2001; 2001US-265305P.
XX PR 31-JAN-2001; 2001US-265682P.
XX PR 09-FEB-2001; 2001US-267568P.
XX PR 21-MAR-2001; 2001US-278651P.
XX PR 28-APR-2001; 2001US-287112P.
XX PR 16-MAY-2001; 2001US-291631P.
XX PR 12-JUL-2001; 2001US-305484P.
XX PR 20-AUG-2001; 2001US-313999P.
XX PR 27-NOV-2001; 2001US-333626P.
XX PA (CORI-) CORIXA CORP.
XX PI Benson DR, Kalos MD, Lodes MJ, Persing DH, Hepler WT, Jiang Y;
XX DR WPI: 2002-627435/67.
XX DR N-PDB; ABV99144.
XX PT New isolated polynucleotide and pancreatic tumor polypeptides, useful
XX PT for diagnosing, preventing and/or treating cancer, particularly
XX PT pancreatic cancer -
XX PS Claim 2; SEQ ID NO 4559; 300pp + Sequence Listing: English.
XX CC The invention relates to an isolated polynucleotide (I) comprising: (a)
XX CC any of a group of over 4000 nucleotide sequences (ABV94628-ABV99145);
XX CC (b) complements of (a); (c) sequences consisting of at least 20
XX CC contiguous residues of (a); (d) sequences that hybridize to (a), under
XX CC moderately stringent conditions; (e) sequences having at least 75% or 90%
XX CC identity to (a); or (f) degenerate variants of (a). Polypeptides
XX CC (ABP68536-ABP68637) encoded by (I) and oligonucleotide can be used to
XX CC detect cancer in a patient and compositions comprising polypeptides,
XX CC polynucleotides, antibodies, fusion proteins, T cell populations and
XX CC antigen presenting cells expressing the polypeptide are useful in
XX CC treating pancreatic cancer and stimulating an immune response. The
XX CC polynucleotides can be used as probes or primers for nucleic acid
XX CC hybridisation, in the design and preparation of ribozyme molecules for
XX CC inhibiting expression of the tumour polypeptides and proteins in the
XX CC tumour cells, in vaccines and for gene therapy.
XX CC Note: The sequence data for this patent did not form part of the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 243 AA;
XX
XX Query Match 100.0%; Score 243; DB 23; Length 243;
XX Best Local Similarity 100.0%; Pred. No. 5.1e-220;
XX Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 MRPGFASPQRLLGLLLLLQLPAPSSASEIPKQKQAKQLRQREVVLDYNGMCLQGP 60
XX DB 1 MRPGFASPQRLLGLLLLLQLPAPSSASEIPKQKQAKQLRQREVVLDYNGMCLQGP 60
XX QY 61 GVPGRGSGPQANVITPTPGIPGNDGKGEKGECLRFSFBSWTPNTKQCSWSLNTGIDL 120
XX DB 61 GVPGRGSGPQANVITPTPGIPGNDGKGEKGECLRFSFBSWTPNTKQCSWSLNTGIDL 120
XX QY 121 GRIAECTFTKMSNSALRVLFSSGLRLKRCNNACCOMWTFENAGAECSGPIPAITLYLQ 180
XX DB 121 GRIAECTFTKMSNSALRVLFSSGLRLKRCNNACCOMWTFENAGAECSGPIPAITLYLQ 180

QY 181 GSPENSTINIRHTSSVEGLCEGIGAGLVDAIWMGTCSDPKGDASTGNSVSRIITEE 240
DB 181 GSPENSTINIRHTSSVEGLCEGIGAGLVDAIWMGTCSDPKGDASTGNSVSRIITEE 240
QY 241 LPR 243
DB 241 LPR 243
RESULT 8
ID ABG95911 standard; Protein; 243 AA.
XX AC ABG95911;
XX XX
XX 10-DEC-2002 (first entry)
XX DE Human secreted/transmembrane protein PRO1550.
XX XX
XX KM Human; secreted protein; transmembrane protein; anti-rheumatic;
XX KM antiarthritic; osteoporotic; sports-related joint problem;
XX KM articular cartilage defect; osteoarthritis; rheumatoid arthritis.
XX OS Homo sapiens.
XX PN US2002119130-A1.
XX PD 29-AUG-2002.
XX PF 06-DEC-2001; 2001US-0006667.
XX PR 29-OCT-1997; 97US-063435P.
XX PR 29-OCT-1997; 97US-064215P.
XX PR 22-APR-1998; 98US-082797P.
XX PR 29-APR-1998; 98US-083495P.
XX PR 15-MAY-1998; 98US-08579P.
XX PR 10-JUN-1998; 98US-088811P.
XX PR 10-JUN-1998; 98US-088824P.
XX PR 11-JUN-1998; 98US-088825P.
XX PR 12-JUN-1998; 98US-089105P.
XX PR 16-JUN-1998; 98US-089514P.
XX PR 16-SEP-1998; 98WO-US19330.
XX PR 08-MAR-1999; 99WO-US05028.
XX PR 14-MAY-1999; 99WO-US10733.
XX PR 02-JUN-1999; 99WO-US12252.
XX PR 01-SEP-1999; 99WO-US20111.
XX PR 15-SEP-1999; 99WO-US21090.
XX PR 22-DEC-1999; 99WO-US30720.
XX PR 18-FEB-2000; 2000WO-US04341.
XX PR 18-FEB-2000; 2000WO-US04342.
XX PR 30-MAR-2000; 2000WO-US08439.
XX PR 22-MAY-2000; 2000WO-US14042.
XX PR 02-JUN-2000; 2000WO-US15264.
XX PR 23-AUG-2000; 2000WO-US23522.
XX PR 24-AUG-2000; 2000WO-US23328.
XX PR 10-NOV-2000; 2000WO-US30873.
XX PR 01-DEC-2000; 2000WO-US32378.
XX PR 20-DEC-2000; 2000WO-US34956.
XX PR 28-FEB-2001; 2001WO-US06520.
XX PR 20-JUN-2001; 2001WO-US19692.
XX PR 29-JUN-2001; 2001WO-US21066.
XX PR 09-JUL-2001; 2001WO-US21735.
XX PA (GETH) GENENTECH INC.
XX PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
XX PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX DR WPI: 2002-731348/79.
XX DR N-PDB; ABS74438.

XX New isolated secreted and transmembrane PRO polypeptide useful for
PT modulating biological activity of a cell, or for treating
PT sports-related joint problems, osteoarthritis or Rheumatoid arthritis
XX
PS Claim 20; Fig 122; 399pp; English.
XX

The invention relates to an isolated secreted and transmembrane PRO polypeptide having 80 Å sequence identity to a sequence appearing as AB69551-AB695924 or their associated signal peptide, or a sequence of an extracellular domain of the proteins with their associated signal peptide or lacking its associated signal peptide. Also included are the nucleic acids encoding the proteins, vectors, host cells, fusion proteins and antibodies which specifically bind to the proteins. The proteins are useful for detecting a polypeptide designated as A, B, C or D in a sample suspected of containing an A, B, C or D polypeptide, by contacting the sample with a polypeptide designated as E, F, G, H or I (or vice versa) and determining the formation of a A/E, B/F, B/G, C/H or D/I polypeptide conjugate in the sample, where the formation of the conjugate is indicative of the presence of an A, B, C or D polypeptide in the sample, where A is a PRO10272 polypeptide, B is a PRO20110 polypeptide, C is a PRO10096 polypeptide, D is a PRO19760 polypeptide, E is a PRO5601 polypeptide, F is a PRO1 polypeptide, G is a PRO20040 polypeptide, H is a PRO20233 polypeptide and I is a PRO1890 polypeptide. The sample comprises a cell suspected of expressing the A, B, C or D polypeptide. The E, F, G, H or I polypeptide is labeled with a detectable label or is attached to a solid support. The proteins are useful for linking a bioactive molecule to a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H or I. The bioactive molecule is a toxin, a radiolabel or an antibody. The bioactive molecule causes death of the cell. A, B, C, D, E, F, G, H, or I, or antibodies against them are useful for modulating a biological activity of a cell expressing a polypeptide designated as A, B, C or D or E, F, G, H, or I. The cell is killed. The proteins are useful for identifying agonists or antagonists, for the preparation of a medicament useful in the treatment of a condition which is responsive to the proteins, as molecular weight markers for protein electrophoresis purposes, and as therapeutic agents for treating sports-related joint problems, articular cartilage defects, osteoarthritis or rheumatoid arthritis. Nucleic acids encoding the proteins are useful as hybridisation probes, in chromosome and gene mapping, in the generation of anti-sense RNA and DNA, for the preparation of the proteins, to generate transgenic or knockout animals which are useful in the development and screening of therapeutic useful reagents, for chromosome identification, and in gene therapy. The antibody is useful as a therapeutic agent, in a diagnostic assay and for affinity purification of the protein from recombinant cell culture natural sources. The present sequence represents a novel secreted or transmembrane protein of the invention.

SQ Sequence 243 AA;

Query Match	100.0%	Score 243;	DB 23;	Length 243;
Best Local Similarity	100.0%	Pred. No. 5,1e-220;		
Matches 243;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

QY 1 MRPGGAASPQRIRGLILLILLILLQLLPAPSSASLIPKGRKALRLREVVDLYNGMCLGPA 60

Db 1 MRPGGAASPQRIRGLILLILLILLQLLPAPSSASLIPKGRKALRLREVVDLYNGMCLGPA 60

QY 61 GVGGRGSGSGAVNIPTPGIPGRDGFKEKGGCLIPSEFEESEWNTNYKQCSMSSTLVGIDL 120

Db 61 GVGGRGSGSGAVNIPTPGIPGRDGFKEKGGCLIPSEFEESEWNTNYKQCSMSSTLVGIDL 120

QY 121 GKIAETFTKMSNSALRVLFSGSLRLKCRNACCQRMVFTFNGAECSGPLTEAIIYLDQ 180

Db 121 GKIAETFTKMSNSALRVLFSGSLRLKCRNACCQRMVFTFNGAECSGPLTEAIIYLDQ 180

QY 181 GSPENMSTINIRHTSSVEGLCGISAGLVDAIWMGTGSDVPKDASTGNNVSRIITEE 240

Db 181 GSPENMSTINIRHTSSVEGLCGISAGLVDAIWMGTGSDVPKDASTGNNVSRIITEE 240

QY 241 LPR 243

Db 241 LPK 243

RESULT 9
ABG78938
ID ABG78938 standard; Protein; 243 AA

DT 15-NOV-2002 (first entry)
YY

Human breast tumour polypeptide #29.

KW Human; breast tumour protein; breast cancer; cytostatic; vaccine.
 YX

OS Homo sapiens
XY

PN US2002085998-A1
XY

PD 04-JUL-2002-
XY

13-APR-2001; 200105-0834759.

PR	28-DEC-1998;	9805-0222575.
PR	02-APR-1999.	99TS-0285480

PR	23-JUN-1999;	99US-0339338
PR	02-SEP-1999;	99US-0389681

PR 03-NOV-1999; 99US-0433826
PR 17-APR-2000; 2000US-0551621

PR 06-JUN-2000; 2000US-0590751.
PR 22-JUN-2000; 2000US-0604287.

PK Z0-00L-2000; 200005-0620403;
XX

FM (CONT)) CONTAIN CONT.
XX
XX

PI Henderson RA; MILCH

DR WPI; 2002-635657/68.

XX N FDD, AB004020, AB004020.

PT polynucleotides, use

PT a patient, and in pharmaceutical compositions, for treating breast cancer -

PS Claim 2; Page

CC The invention relates to an isolated p

CC
CC

detecting the presence of polypeptides in encoded

useful for stimulating an immune response in a patient and can therefore

detecting the presence of a cancer in a patient, by obtaining a

a composition of the invention and detecting the amount of polynucleot

CC tumour polypeptide of the invention.

Sequence 243 AA;

CC The invention relates to an isolated breast tumour polynucleotide and the
CC polypeptide it encodes. The polynucleotide and polypeptide are useful for
CC detecting the presence of breast cancer in a patient, and in
CC pharmaceutical compositions for treating breast cancer. The sequences are
CC useful for stimulating an immune response in a patient and can therefore
CC be used in production of vaccines. The sequences are also useful for
CC detecting the presence of a cancer in a patient, by obtaining a
CC biological sample from the patient, contacting the biological sample with
CC a composition of the invention and detecting the amount of polynucleotide
CC that hybridizes to the sample. This sequence represents a human breast
CC tumour polypeptide of the invention.

SQ Sequence 243 AA;

Query Match	100.0%	Score 243;	DB 23;	Length 243;
Best Local Similarity	100.0%	Pred. No. 5.1e-220;		
Matches 243;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	1	MRQGGAAAPORRLRGLLLLLQLPAPSSASIPKGRKAOLRQREVDLYNKGKLOGPA	60
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QY	61	GVYGRGSGSGANYPSTPGIPGRDGFKKGKGLCELFSEESWTPPYKQCSMSLNTGIDL	120
Db	61	GVYGRGSGSGANYPSTPGIPGRDGFKKGKGLCELFSEESWTPPYKQCSMSLNTGIDL	120

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QY 121 GKIAECTFTKRSNSALRVLFSGSLRLKCNACCQRMVFTFNGAECGPIPIEAIITLDQ 180
DQ 121 GKIAECTFTKRSNSALRVLFSGSLRLKCNACCQRMVFTFNGAECGPIPIEAIITLDQ 180
QY 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSYPRGDASTGNSVSRIITIEE 240
DQ 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSYPRGDASTGNSVSRIITIEE 240
QY 241 LPK 243
DQ 241 LPK 243

RESULT 10
AB95545
ID ABB95545 standard; Protein: 243 AA.
AC ABB95545;
XX
XX 19-JUL-2002 (first entry)
DE Human angiogenesis related protein PRO1550 SEQ ID NO: 246.
XX
XX Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
XX atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
XX cardiatic; cytosolic; antiangiogenic; hypotensive; vulnerary;
XX antiarteriosclerotic.
XX
XX Homo sapiens.
XX
XX WO200208284-A2.
XX
XX 31-JAN-2002.
XX
XX 09-JUL-2001; 2001WO-US21735.
XX
XX 20-JUL-2000; 2000US-219556P.
XX 25-JUL-2000; 2000US-220624P.
XX 28-JUL-2000; 2000WO-US20710.
XX 02-AUG-2000; 2000US-222695P.
XX 17-AUG-2000; 2000US-0643657.
XX 23-AUG-2000; 2000WO-US23522.
XX 24-AUG-2000; 2000WO-US23328.
XX 07-SEP-2000; 2000US-230978P.
XX 15-SEP-2000; 2000US-000000P.
XX 18-SEP-2000; 2000US-0664610.
XX 18-SEP-2000; 2000US-0665350.
XX 24-OCT-2000; 2000US-242922P.
XX 08-NOV-2000; 2000US-0709228.
XX 08-NOV-2000; 2000WO-US30952.
XX 10-NOV-2000; 2000WO-US30873.
XX 20-DEC-2000; 2000WO-US32678.
XX 20-DEC-2000; 2000US-0747259.
XX 20-DEC-2000; 2000WO-US34956.
XX 22-JAN-2001; 2001US-0767609.
XX 28-FEB-2001; 2001US-0796498.
XX 28-FEB-2001; 2001WO-US06520.
XX 01-MAR-2001; 2001WO-US06566.
XX 09-MAR-2001; 2001US-0802706.
XX 14-MAR-2001; 2001US-0808689.
XX 22-MAR-2001; 2001US-0816744.
XX 05-APR-2001; 2001US-0828366.
XX 10-MAY-2001; 2001US-0854208.
XX 10-MAY-2001; 2001US-0854280.
XX 25-MAY-2001; 2001US-0866028.
XX 25-MAY-2001; 2001US-0866034.
XX 25-MAY-2001; 2001WO-US17092.
XX 30-MAY-2001; 2001US-0870574.
XX 30-MAY-2001; 2001WO-US17443.
XX 01-JUN-2001; 2001WO-US17800.
XX 20-JUN-2001; 2001WO-US19692.

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PR 28-JUN-2001; 2001WO-US00000.
XX
XX (GETH ) GENENTECH INC.
PA (BAKE/) BAKER K P.
PA (FERR/) FERRARA N.
PA (GERB/) GERBER H.
PA (GERR/) GERRITSEN M E.
PA (GODD/) GODDARD A.
PA (GODO/) GODOWSKI P J.
PA (GUER/) GUENEY A L.
PA (HILL/) HILLAN K J.
PA (MARK/) MARSTERS S A.
PA (PANJ/) PAN J.
PA (PAON/) PAONI N F.
PA (STEP/) STEPHAN J F.
PA (WATA/) WATANABE C K.
PA (WILL/) WILLIAMS P M.
PA (WOOD/) WOOD W I.
XX
XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;
XX Godowski PJ, Gueney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;
XX Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
XX WPI; 2002-171999/22.
XX
XX N-PSDB; ABL95683.
XX
XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
XX useful in diagnosis and treatment of cardiovascular (e.g. myocardial
XX infarction), endothelial or angiogenic disorders in a mammal -
XX
XX Claim 11; Fig 246; 567pp; English.
XX
XX
XX The present invention provides the protein and coding sequences of human
XX PRO proteins. These are useful for treating or diagnosing a
XX cardiovascular, endothelial or angiogenic disorder, including cardiac
XX hypertrophy, trauma, cancer, age-related macular degeneration,
XX atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis,
XX angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
XX angiogenesis (such as breast carcinoma and liver carcinoma) and wound
XX healing. The present sequence is a PRO protein of the invention.
XX
XX
XX Sequence 243 AA;
XX
XX Query Match 100.0%; Score 243; DB 23; Length 243;
XX Best Local Similarity 100.0%; Pred. No. 5.1e-220;
XX Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX QY 1 MRPOGPASPORLRGLLLILLDLPAPSSASEIPKQKQAKOLQREVVLDYNGMCLQGPA 60
DQ 1 MRPOGPASPORLRGLLLILLDLPAPSSASEIPKQKQAKOLQREVVLDYNGMCLQGPA 60
XX
XX QY 61 GVPGRGSPGANVYIPGPIGRDGFGEKGECLRESFEESWTPNPKQCSNLSLNTGIDL 120
DQ 61 GVPGRGSPGANVYIPGPIGRDGFGEKGECLRESFEESWTPNPKQCSNLSLNTGIDL 120
XX
XX QY 121 GKIAECTFTKRSNSALRVLFSGSLRLKCNACCQRMVFTFNGAECGPIPIEAIITLDQ 180
DQ 121 GKIAECTFTKRSNSALRVLFSGSLRLKCNACCQRMVFTFNGAECGPIPIEAIITLDQ 180
XX
XX QY 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSYPRGDASTGNSVSRIITIEE 240
DQ 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSYPRGDASTGNSVSRIITIEE 240
XX
XX QY 241 LPK 243
DQ 241 LPK 243

RESULT 11
AAE20462
ID AAE20462 standard; Protein: 243 AA.
AC AAE20462;

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XX 01-JUL-2002 (first entry)
DE Human tumour-associated antigenic target-170 (TAT170) protein.
DE Human; tumour-associated antigenic target-170; TAT170; cytostatic;
DE gene therapy; tumour; breast; lung; liver; stomach; cancer; ADEPT;
DE antibody-dependent enzyme mediated prodrug therapy.
OS Homo sapiens.
FH Key Location/Qualifiers
FH Peptide 1..30
FH /Label= signal_peptide
FH Protein 31..243
FH /Label= Mature_TAT170_protein
FT Modified-site 67..72
FT /note= "N-myristoylation site"
FT Modified-site 117..122
FT /note= "N-myristoylation site"
FT Modified-site 163..168
FT /note= "N-myristoylation site"
FT Modified-site 186..189
FT /note= "N-myristoylation site"
FT Modified-site 199..204
FT /note= "Asn is N-glycosylated"
FT Modified-site 203..208
FT /note= "N-myristoylation site"
FT Modified-site 203..208
FT /note= "N-myristoylation site"
PN WO200216602-A2.
PD 28-FEB-2002.
XX 23-AUG-2001; 2001WO-US26626.
PR 24-AUG-2000; 2000WO-US23328.
PR 01-DEC-2000; 2000WO-US32678.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19692.
PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
XX (GETH ) GENENTECH INC.
XX Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Polakis P;
PI Williams PM, Wood WI, Wu TD, Zhang Z;
XX WPI; 2002-292065/33.
DR N-PSDB; AAD32717.
XX New antibodies that bind tumor-associated antigenic target (TAT)
PT polypeptides, useful for treating and diagnosing tumor (e.g. breast,
PT lung, liver or stomach tumor) in mammals, e.g. dogs, cats, cattle,
PT pigs, goats, rabbits or humans.
XX Claim 1; Fig 7; 124pp; English.
XX The present invention relates to an isolated antibody that binds to
CC tumor-associated antigenic target (TAT) polypeptide. The antibody is
CC used for treating and diagnosing tumors (e.g. breast, lung, liver or
CC stomach tumors) in mammals, e.g. dogs, cats, cattle, horses, sheep,
CC pigs, goats, rabbits, or preferably humans. The antibody may also be
CC used in antibody-dependent enzyme mediated prodrug therapy (ADEPT).
CC The antibody is also useful for the therapeutic treatment or for the
CC diagnostic detection of cancer. TAT cDNA is useful in gene therapy.
CC The present sequence is human TAT170 protein. TAT170 cDNA is designated
CC as DNA76393-1664.
XX Sequence 243 AA:
SO
Query Match 100.0%; Score 243; DB 23; Length 243;
Best Local Similarity 100.0%; Pred. No. 5,1e-220;

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Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGPASPQRLRGLLLLLLLQLPAPSSASEIPKQKQALRREVVLYNGMCIQSPA 60
DB 1 MRPGPASPQRLRGLLLLLLLQLPAPSSASEIPKQKQALRREVVLYNGMCIQSPA 60
QY 61 GYPGDSGPANVITPGTGTGIRGDFKKEKGECLRESEESWTPYKCCSSSLNYGIDL 120
DB 61 GYPGDSGPANVITPGTGTGIRGDFKKEKGECLRESEESWTPYKCCSSSLNYGIDL 120
QY 121 GKIACTFTKMRNSGALVYFSGSLRLCRNACCRWYFTFNAGACSGPLIEATITVDQ 180
DB 121 GKIACTFTKMRNSGALVYFSGSLRLCRNACCRWYFTFNAGACSGPLIEATITVDQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIYWGTCSDYPRKGDASTGMSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIYWGTCSDYPRKGDASTGMSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243
RESULT 12
ABB84939
ID ABB84939 standard; Protein; 243 AA.
AC ABB84939;
XX 16-MAY-2002 (first entry)
DE Human PRO1550 protein sequence SEQ ID NO:246.
XX Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive;
XX vulnerability; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
XX gene therapy; cardiovascular disorder; endothelial disorder; cancer;
XX angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
XX age-related macular degeneration; arterial restenosis; angina;
XX rheumatoid arthritis; myocardial infarction; thrombophlebitis;
XX lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
XX wound healing; chromosome mapping; gene mapping.
OS Homo sapiens.
XX WO200200690-A2.
XX 03-JAN-2002.
XX 20-JUN-2001; 2001WO-US19692.
PR 23-JUN-2000; 2000US-213637P.
PR 20-JUL-2000; 2000US-219556P.
PR 25-JUL-2000; 2000US-220624P.
PR 25-JUL-2000; 2000US-220664P.
PR 28-JUL-2000; 2000WO-US20710.
PR 02-AUG-2000; 2000US-222695P.
PR 17-AUG-2000; 2000US-0643657.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US33328.
PR 07-SEP-2000; 2000US-230978P.
PR 18-SEP-2000; 2000US-0664610.
PR 18-SEP-2000; 2000US-0665350.
PR 24-OCT-2000; 2000US-242922P.
PR 08-NOV-2000; 2000WO-US30952.
PR 08-NOV-2000; 2000WO-US30952.
PR 10-NOV-2000; 2000WO-US30873.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000US-0747253.
PR 20-DEC-2000; 2000WO-US34956.
PR 22-JAN-2001; 2001US-0767609.
PR 28-FEB-2001; 2001US-0796498.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-MAR-2001; 2001WO-US06666.

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us-09-938-418-7.oliv6.rag

XX ABU71294;
AC 10-JUN-2003 (first entry)
XX
DT
XX
DE
XX
XX Human PRO1550 protein.
KM Human: PRO: secreted; transmembrane; cytosolic; TNF-alpha; blood;
KM tumour necrosis factor alpha release; chondrocyte cell; proliferation;
KM differentiation; tumour; gene therapy.
XX
XS Homo sapiens.

PD	20-FEB-2003.
XX	
PF	02-JUL-2002; 2002US-0187600.
XX	
PR	16-SEP-1998; 98MO-US19330.
PR	07-OCT-1998; 98MO-US21141.
PR	01-DEC-1998; 98MO-US25108.
PR	08-MAR-1999; 99MO-US05028.
PR	14-MAY-1999; 99MO-US10733.
PR	02-JUN-1999; 99MO-US12252.
PR	01-SEP-1999; 99MO-US20111.
PR	15-SEP-1999; 99MO-US21090.

PR	02-DEC-1999:	99NO-US28551.
PR	30-DEC-1999:	99NO-US31274.
PR	05-JAN-2000:	2000NO-US00219.
PR	18-FEB-2000:	2000NO-US04341.
PR	18-FEB-2000:	2000NO-US04342.
PR	22-FEB-2000:	2000NO-US04414.
PR	24-FEB-2000:	2000NO-US05004.
PR	01-MAR-2000:	2000NO-US05601.
PR	02-MAR-2000:	2000NO-US05841.
PR	15-MAR-2000:	2000NO-US06884.
PR	30-MAR-2000:	2000NO-US08439.
PR	17-MAY-2000:	2000NO-US13705.
PR	22-MAY-2000:	2000NO-US14042.
PR	30-MAY-2000:	2000NO-US14941.

PR 28-JUL-2000; 2000WO-US20710.

PR 08-NOV-2000; 2000WO-US30952.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.

PR	01-JUN-2001	2001WO-US17800
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PR	09-JUL-2001	2001WO-US21735
PR	29-AUG-2001	2001WO-US27099
PR	18-SEP-1997	97US-059663P
PR	18-SEP-1997	97US-059266P
PR	17-OCT-1997	97US-062250P
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PR	24-OCT-1997	97US-063120P
PR	24-OCT-1997	97US-063121P
PR	28-OCT-1997	97US-063540P
PR	28-OCT-1997	97US-063541P
PR	28-OCT-1997	97US-063544P
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PR	31-OCT-1997	97US-063870P
PR	31-OCT-1997	97US-064103P
PR	13-NOV-1997	97US-065311P

PR 24-NOV-1997; 97US-066772P.
PR 11-DEC-1997; 97US-069335P.
PR 12-DEC-1997; 97US-069425P.

PR 17-DEC-1997; 97US-069870P.
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PR 10-MAR-1998; 98US-077450P.
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PR 05-JUN-1998; 98US-088167P.
PR 05-JUN-1998; 98US-088202P.
PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
PR 09-JUN-1998; 98US-088655P.
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PR 10-JUN-1998; 98US-088811P.
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PR 10-JUN-1998; 98US-088826P.
PR 11-JUN-1998; 98US-088861P.
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PR 02-SEP-1998; 98US-098843P.
PR 09-SEP-1998; 98US-099602P.
PR 10-SEP-1998; 98US-099741P.
PR 10-SEP-1998; 98US-099754P.
PR 10-SEP-1998; 98US-099763P.
PR 10-SEP-1998; 98US-099812P.

Query Match 100.0%; Score 243; DB 24; Length 243;
Best Local Similarity 100.0%; Pred. No. 5,1e-220; Indels 0; Gaps 0;
Matches 243; Conservative 0; Mismatches 0;

QY 1 MRPOGPASPORLKLILLILLIOLPAPSSASEIRKOKAOLROREVDLYNGCICLGP 60
DB 1 MRPOGPASPORLKLILLILLIOLPAPSSASEIRKOKAOLROREVDLYNGCICLGP 60
QY 61 GVPGRDGGPGANVPIPGTIGTGRDGFGEKGECECLRESFEESWTNRYKQCSWSLNYGIDL 120
DB 61 GVPGRDGGPGANVPIPGTIGTGRDGFGEKGECECLRESFEESWTNRYKQCSWSLNYGIDL 120
QY 121 GKIAECTFTKMRSSALRYVLESSLRKCRACCORRYFTFNGACGGPIPEXITLYDQ 180
DB 121 GKIAECTFTKMRSSALRYVLESSLRKCRACCORRYFTFNGACGGPIPEXITLYDQ 180
QY 181 GSPENNSTINIHRTSSVEGLCEGICAGIIVDAIVWGTCSDPYPKDASTGNNVSRIITEE 240
DB 181 GSPENNSTINIHRTSSVEGLCEGICAGIIVDAIVWGTCSDPYPKDASTGNNVSRIITEE 240

XX 06-DEC-2001; 2001US-0006867.

XX (GETH) GENENTECH INC.

PI Eaton DL, Filvaroff E, Gerlitsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WT;

XX WPI: 2003-330984/31.
DR N-PSDB: ACA60423.

XX New secreted and transmembrane PRO polypeptides and nucleic acid
PT molecules encoding the polypeptides' useful in gene therapy or
PT preparing a medicament for treating a condition that is responsive to
PT the PRO polypeptide or antibody

XX Disclosure: Fig 122; 409pp; English.

XX The invention describes novel isolated PRO polypeptides. The PRO
CC polypeptides or anti-PRO antibodies are useful in preparing a medicament
CC for treating a condition that is responsive to the PRO polypeptide or
CC antibody. The PRO nucleotide sequences may be used as hybridisation
CC probes in chromosome and gene mapping, or in generating antisense RNA
CC and DNA. PRO nucleic acids are also useful in preparing PRO polypeptides,
CC in assays to identify other proteins or molecules involved in binding
CC reaction, to generate transgenic animals or knockout animals, which in
CC turn are useful in the development and screening of therapeutically
CC useful reagents, for chromosome identification, and tissue typing. The
CC PRO polypeptides and nucleic acid molecules are also useful in gene
CC therapy, and as molecular weight markers for protein electrophoresis
CC purposes. The anti-PRO antibodies may be used in diagnostic assays for
CC PRO, or for the affinity purification of PRO from recombinant cell
CC culture or natural sources. This is the amino acid sequence of a novel
CC human secreted and transmembrane PRO polypeptide.

XX Sequence 243 AA;

Query Match 100.0%; Score 243; DB 24; Length 243;

Best Local Similarity 100.0%; Pred. No. 5.1e-220;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MRPGPASPQRLRGILLILLQLPAPSSASEIRPKGKQALROREVVLDLYNGMCLGPA	60
DB	1	MRPGPASPQRLRGILLILLQLPAPSSASEIRPKGKQALROREVVLDLYNGMCLGPA	60
QY	61	GVPERDSSPGANVTPGTPIGRDGFKEGECLESFESWTPTYKQCSWSLNTYIDL	120
DB	61	GVPERDSSPGANVTPGTPIGRDGFKEGECLESFESWTPTYKQCSWSLNTYIDL	120
QY	121	GKIECFETTKMRNSALRYLFSGLRLKCRNACCORWTFPNGAECGSLPIEAIITYDQ	180
DB	121	GKIECFETTKMRNSALRYLFSGLRLKCRNACCORWTFPNGAECGSLPIEAIITYDQ	180
QY	181	GSPENNSTINIRHTSSVEGLCEGIGAGLVDAIVWGTCSDPYKGDASTGWSVSRIITEE	240
DB	181	GSPENNSTINIRHTSSVEGLCEGIGAGLVDAIVWGTCSDPYKGDASTGWSVSRIITEE	240
QY	241	LPK 243	
DB	241	LPK 243	

Search completed: August 13, 2003, 13:38:08
Job time : 86 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:35:38 ; Search time 39 Seconds

(without alignments)
599.205 Million cell updates/sec

Title: US-09-938-418-7

Perfect score: 243

Sequence: 1 MRPGAPASPQRLRGLLL.....GDASTGMSVSRITIELLPK 243

Scoring table: OLIGO Gapop 60.0 , Gapext 60.0

Searched: 283308 seqs, 9616862 residues

Word size : 6

Total number of hits satisfying chosen parameters: 1982

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : PIR_76:*

1: PIR1:*

2: PIR2:*

3: PIR3:*

4: PIR4:*

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	9	3.7	133	2	Probable membrane
2	9	3.7	144	2	myelin/oligodendro
3	9	3.7	247	2	collagen alpha 1(I
4	9	3.7	779	1	apollipoprotein E r
5	9	3.7	996	2	collagen alpha 1(I
6	9	3.7	1464	1	sporozoite antigen
7	8	3.3	112	2	lurotopin beta chal
8	8	3.3	141	1	choriogenadotropin
9	8	3.3	165	1	collagen alpha 2(X
10	8	3.3	169	2	collagen alpha 1(I
11	8	3.3	177	2	collagen alpha 2(X
12	8	3.3	249	2	collagen alpha 2(X
13	8	3.3	254	2	collagen alpha 2(X
14	8	3.3	291	2	collagen alpha 2(X
15	8	3.3	296	2	collagen alpha 2(X
16	8	3.3	302	2	collagen alpha 2(X
17	8	3.3	307	2	collagen alpha 2(X
18	8	3.3	330	2	collagen alpha 2(X
19	8	3.3	333	2	collagen alpha 2(X
20	8	3.3	333	2	collagen alpha 2(X
21	8	3.3	365	2	collagen alpha 2(X
22	8	3.3	368	2	collagen alpha 2(X
23	8	3.3	378	2	collagen alpha 2(X
24	8	3.3	391	2	collagen alpha 2(X
25	8	3.3	399	2	collagen alpha 2(X
26	8	3.3	424	2	collagen alpha 2(X
27	8	3.3	457	1	collagen alpha 2(X
28	8	3.3	487	1	collagen alpha 2(X
29	8	3.3	487	2	collagen alpha 2(X

30	8	3.3	500	2	S66522	cartilage matrix p
31	8	3.3	636	2	S41067	collagen alpha 1(I
32	8	3.3	674	2	S23297	collagen alpha 1(I
33	8	3.3	809	2	A46747	Na+/H+-exchanging
34	8	3.3	917	2	S09646	collagen alpha 2(V
35	8	3.3	984	2	S67527	collagen kinase (EC
36	8	3.3	1018	1	CGH02A	collagen alpha 2(V
37	8	3.3	1029	1	S21369	collagen alpha 2(V
38	8	3.3	1102	2	JH0717	guanylate cyclase
39	8	3.3	1108	2	A55915	guanylate cyclase
40	8	3.3	1120	2	H88449	protein F54D8.1 (I
41	8	3.3	1265	1	A37967	neural cell adhesi
42	8	3.3	1278	2	T30188	Niemann-Pick C dis
43	8	3.3	1388	1	A53317	collagen alpha 1(I
44	8	3.3	1414	1	S23809	collagen alpha 2(I
45	8	3.3	1433	2	A46053	bullous pemphigoid

ALIGNMENTS

RESULT 1
S57038
Probable membrane protein YJR023c - yeast (Saccharomyces cerevisiae)
N:Alternate names: hypothetical protein J1470; hypothetical protein YJR83.19
C:Species: Saccharomyces cerevisiae
C>Date: 08-Jul-1995 #sequence_revision 08-Sep-1995 #text_change 19-Apr-2002
C:Accession: S57038; S57041; S55212
R:de Haan, M.; Grivell, L.A.; Smits, P.H.M.
Submitted to the Protein Sequence Database, September 1995
A:Accession: S57038
A:Reference number: S56771
A:Molecule type: DNA
A:Residues: 1-133 <ZAG>
A:Cross-references: EMBL:Z49522; NID:q1015659; PID:q1015661
R:Zagalski, M.; Babinska, B.; Gromadka, R.; Migdalski, A.; Rytka, J.; Sulicka, J.; He
submitted to the Protein Sequence Database, September 1995
A:Reference number: S57040
A:Accession: S57041
A:Molecule type: DNA
A:Residues: 1-93 <HUA>
A:Cross-references: EMBL:Z49522; MIPS:YJR023c
R:de Haan, M.; Smits, P.H.M.; Grivell, L.A.
submitted to the EMBL Data Library, May 1995
A:Reference number: S55183
A:Accession: S55212
A:Molecule type: DNA
A:Residues: 1-133 <DEH>
A:Cross-references: EMBL:X87611
C:Genetics:
A:Cross-references: SGD:S0003784
A:Map position: 10R
C:Superfamily: Saccharomyces probable membrane protein YJR023c
C:Keywords: transmembrane protein

Query Match 3.7%; Score 9; DB 2; Length 133;
Best Local Similarity 100.0%; Pred. No. 0.59;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 LLLLLLLL 24
DB 22 LLLLLLLL 30

RESULT 2
T18867
Hypothetical protein C02F4.3 - Caenorhabditis elegans
C:Species: Caenorhabditis elegans
C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 21-Jan-2000
R:Cummings, P.
Submitted to the EMBL Data Library, October 1996
A:Reference number: Z19034

A:Accession: T18867
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-144 <NTL>
 A:Cross-references: EMBL:281032; PIDs: CAB02722.1; GSPDB: GN00022; CESP: C02F4.3
 A:Experimental source: clone C02F4
 A:Genetics:
 A:Gene: CESP: C02F4.3
 A:Map position: 4
 A:Intons: 3/1
 C:Superfamily: Caenorhabditis elegans hypothetical protein C02F4.3

Query Match 3.7%; Score 9; DB 2; Length 144;
 Best Local Similarity 100.0%; Pred. No. 0.64;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 16 LLLLLLQL 24
 |||||
 DB 67 LLLLLLQL 75

RESULT 3

A55717
 Myelin/oligodendrocyte glycoprotein precursor - mouse

C:Species: Mus musculus (house mouse)
 C:Date: 23-Mar-1995 #sequence_revision 23-Mar-1995 #text_change 08-Oct-1999
 C:Accession: A55717; C47712
 R:Daubas, P.; Pham-Dinh, D.; Dautigny, A.
 Genomics 23, 36-41, 1994
 A:Title: Structure and polymorphism of the mouse myelin/oligodendrocyte glycoprotein gene
 A:Reference number: A55717; MUID:5510110; PMID:7829100
 A:Accession: A55717
 A:Molecule type: DNA
 A:Residues: 1-247 <DAU>
 A:Cross-references: GB: I29498

R:Pham-Dinh, D.; Mattei, M.G.; Nussbaum, J.L.; Rousset, G.; Pontarotti, P.; Roedel, N.;
 Proc. Natl. Acad. Sci. U.S.A. 90, 7990-7994, 1993
 A:Title: Myelin/oligodendrocyte glycoprotein is a member of a subset of the immunoglobulin
 A:Reference number: A47712; MUID:93376728; PMID:8367453
 A:Accession: C47712
 A:Molecule type: mRNA
 A:Residues: 30-95, 'E', 97-247 <PHA>
 A:Cross-references: GB: I20942; NID: g399588; PIDs: AAA03180.1; PID: g399589

C:Genetics:
 A:Gene: MCG
 A:Map position: 17
 A:Note: encoded within the MHC
 C:Function:
 A:Description: may be involved in lipid interaction; may be involved in cell-cell commun

C:Keywords: glycoprotein; myelin; transmembrane protein
 F:1-29/Domain: signal sequence #status predicted <SIG>
 F:30-247/Product: myelin/oligodendrocyte glycoprotein #status predicted <MAT>
 F:151-179/Domain: transmembrane #status predicted <TM>
 F:204-229/Domain: transmembrane #status predicted <TM>
 F:60/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 3.7%; Score 9; DB 2; Length 247;
 Best Local Similarity 100.0%; Pred. No. 1;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 16 LLLLLLQL 24
 |||||
 DB 16 LLLLLLQL 24

RESULT 4

C98015

collagen alpha 1(I) chain - bovine (tentative sequence) (fragments)
 C:Species: Bos primigenius taurus (cattle)
 C:Date: 24-Apr-1984 #sequence_revision 31-Dec-1993 #text_change 31-Mar-2000
 C:Accession: A91193; A9129; A91387; A91211; A91201; A91200; A43048; A02853
 R:Reuterberg, J.; Timpl, R.; Fritschy, H.
 Eur. J. Biochem. 27, 231-237, 1972

A:Title: Structural characterization of N-terminal antigenic determinants in calf and
 A:Reference number: A91193; MUID:72255334; PMID:4115172
 A:Accession: A91193
 A:Molecule type: protein
 A:Residues: 1-19 <RAU>

A:Experimental source: skin
 A:Note: the epsilon carbon of Lys-9, by homology with the rat alpha 1(I) chain, is co
 R:Fietzek, P.P.; Kuehn, K.
 Eur. J. Biochem. 52, 77-82, 1975
 A:Title: The covalent structure of collagen: amino-acid sequence of the cyanogen-brom
 A:Reference number: A91229; MUID:76022320; PMID:1164916
 A:Accession: A91229

A:Molecule type: protein
 A:Residues: 20-145 <FE>
 A:Experimental source: skin
 A:Note: Lys-103 is hydroxylated and binds glucosylgalactose
 R:Fietzek, P.P.; Wendt, P.; Kell, I.; Kuehn, K.
 FEBS Lett. 26, 74-76, 1972

A:Title: The covalent structure of collagen: amino acid sequence of alpha1-CB3 from c
 A:Reference number: A91387; MUID:73049499; PMID:4673951
 A:Accession: A91387
 A:Molecule type: protein
 A:Residues: 146-294 <FI2>
 A:Experimental source: skin
 R:Fietzek, P.P.; Rexrodt, F.W.; Hopper, K.E.; Kuehn, K.
 Eur. J. Biochem. 38, 396-400, 1973

A:Title: The covalent structure of collagen. 2. The amino-acid sequence of alpha1-CB7
 A:Reference number: A91211; MUID:74086118; PMID:4359390
 A:Accession: A91211
 A:Molecule type: protein
 A:Residues: 295-562 <FI3>
 A:Experimental source: skin
 R:Wendt, P.; Mark, K.V.D.; Rexrodt, F.; Kuehn, K.
 Eur. J. Biochem. 30, 169-183, 1972

A:Title: The covalent structure of collagen. The amino-acid sequence of the 112 resid
 A:Reference number: A91201; MUID:73042276; PMID:4343808
 A:Accession: A91201
 A:Molecule type: protein
 A:Residues: 563-675 <WEN>
 A:Experimental source: skin
 R:Fietzek, P.P.; Rexrodt, F.W.; Wendt, P.; Stark, M.; Kuehn, K.
 Eur. J. Biochem. 30, 163-168, 1972

A:Title: The covalent structure of collagen. Amino acid sequence of peptide alpha1-CB
 A:Reference number: A91200; MUID:73042275; PMID:4343807
 A:Accession: A91200
 A:Molecule type: protein
 A:Residues: 676-758 <FI4>
 A:Experimental source: skin
 A:Note: Pro-726 is the only 3-hydroxyproline and the only hydroxylated proline in pos

R:Reuterberg, J.; Fietzek, P.; Rexrodt, F.; Becker, U.; Stark, M.; Kuehn, K.
 FEBS Lett. 21, 75-79, 1972
 A:Title: The amino acid sequence of the carboxyterminal nonhelical cross link region
 A:Reference number: A43048
 A:Accession: A43048
 A:Molecule type: protein
 A:Residues: 759-779 <RA2>

A:Experimental source: skin
 C:Comment: Lysines at positions 115, 124, 274, 346, 424, 496, 658, and 670 may be hyd
 C:Comment: Prolines in the third position of the tripeptide repeating unit (G-X-Y) ar
 C:Comment: The order of the eight CMr peptides in the alpha 1(I) chain of bovine skl
 9, 149, 268, and 217 residues.

C:Comment: The complete chain contains 1052 residues.
 C:Superfamily: collagen alpha 1(I) chain; fibrillar collagen carboxyl-terminal homolo
 C:Keywords: coiled coil; extracellular matrix; glycoprotein; pyroglyutamic acid; trine
 F:1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental

Query Match 3.7%; Score 9; DB 1; Length 779;
 Best Local Similarity 100.0%; Pred. No. 2.7;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 63 PGRDGSFGA 71
 |||||
 DB 586 PGRDGSFGA 594

RESULT 5
JEO237
apolipoprotein E receptor 2 precursor - mouse
N:Alternate names: apoER2
C:Species: Mus musculus (house mouse)
C:Date: 05-Dec-1998 #sequence_revision 05-Dec-1998 #text_change 18-Aug-2000
A:Accession: JEO237
R:Kim, H.J.; Kim, D.H.; Magoori, K.; Saeki, S.; Yamamoto, T.T.
J. Biochem. 124, 451-456, 1998
A:Title: Evolution of the apolipoprotein E receptor 2 gene by exon loss.
A:Reference number: JEO237; MUID:96352008; PMID:9685741
A:Accession: JEO237
A:Molecule type: mRNA
A:Residues: 1-996 <KIM>
A:Cross-references: DDBJ:D85463
C:Superfamily: LDL receptor; EGF homology; LDL receptor ligand-binding repeat homology;
C:Keywords: glycoprotein
F:1-35/Domain: signal sequence #status predicted <SIG>
F:36-996/Product: apolipoprotein E receptor 2 #status predicted <MAT>
F:41-75/Domain: LDL receptor ligand-binding repeat homology <LDL1>
F:80-116/Domain: LDL receptor ligand-binding repeat homology <LDL2>
F:121-157/Domain: LDL receptor ligand-binding repeat homology <LDL3>
F:161-195/Domain: LDL receptor ligand-binding repeat homology <LDL4>
F:200-237/Domain: LDL receptor ligand-binding repeat homology <LDL5>
F:251-286/Domain: LDL receptor ligand-binding repeat homology <LDL6>
F:291-325/Domain: LDL receptor ligand-binding repeat homology <LDL7>
F:331-368/Domain: LDL receptor ligand-binding repeat homology <LDL>
F:373-407/Domain: EGF homology <EGF>
F:585-628/Domain: LDL receptor YWTD-containing repeat homology <YWT>
F:723-767/Domain: EGF homology <EGF1>
F:888-881/Domain: transmembrane #status predicted <TMM>
F:805,840/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 3.7%; Score 9; DB 2; Length 996;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 LLLLLLLQL 24
| | | | | | | |
Db 14 LLLLLLLQL 22

RESULT 6
CGH015
collagen alpha 1(I) chain precursor - human
N:Alternate names: procollagen alpha 1(I) chain
C:Species: Homo sapiens (man)
C:Date: 12-Aug-1991 #sequence_revision 04-Oct-1996 #text_change 31-Dec-2000
A:Accession: I60114; S01143; A53333; I55254; A35943; I55237; S09400; B90567; S11
5269; A29459; I53466; A02852; I37247
R:D'Alessio, M.; Bernard, M.; Pretorius, P.J.; de Wet, W.; Ramirez, F.; Pretorius, P.J.
Gene 67, 105-115, 1988
A:Title: Complete nucleotide sequence of the region encompassing the first twenty-five
A:Reference number: I60114; MUID:88325734; PMID:2843432
A:Accession: I60114
A:Molecule type: DNA
A:Status: translated from GB/EMBL/DBJ
A:Residues: 1-369, 'L', 371-589 <DAG>
A:Cross-references: GB:M20789; NID:g179593; PIDN:AA59373.1; PID:g179594
R:Tromp, G.; Kuylenstierna, H.; Stacey, A.; Shikata, H.; Baldwin, C.T.; Jaenisch, R.; Prock
Blochem. J. 253, 919-922, 1988
A:Title: Structure of a full-length cDNA clone for the prepro-alpha-1(I) chain of human
A:Reference number: S01143; MUID:89025644; PMID:3178743
A:Accession: S01143
A:Molecule type: mRNA
A:Residues: 1-472 <TRK>
A:Cross-references: EMBL:X07884; NID:930015; PIDN:CA30731.1; PID:930016; GB:M36546; NID
A:Note: submitted to the EMBL/Genbank/DBJ databases by Prockop, D.J., 13-JUN-1988
R:Chu, M.L.; de Wet, W.; Bernard, M.; Ding, J.F.; Morabito, M.; Myers, J.; Williams, C.;
Nature 310, 337-340, 1984
A:Title: Human proalpha1(I) collagen gene structure reveals evolutionary conservation of

A:Reference number: A93335; MUID:84270697; PMID:6462220
A:Accession: A93335
A:Molecule type: DNA
A:Residues: 1-58, 'Q', 60-181 <CHD>
A:Cross-references: EMBL:X00820; NID:935657; PIDN:CA25394.1; PID:935658
R:Rossouw, C.M.S.; Vergeer, W.P.; du Plooy, S.J.; Bernard, M.P.; Ramirez, F.; de Wet,
J. Biol. Chem. 262, 15151-15157, 1987
A:Title: DNA sequences in the first intron of the human pro-alpha 1(I) collagen gene
A:Reference number: I55254; MUID:88033098; PMID:2822714
A:Accession: I55254
A:Status: translation not shown; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-45 <ROS>
A:Cross-references: GB:J02829; NID:9180387; PIDN:AA51993.1; PID:9180388
R:Bornstein, P.; McKay, J.; Morishima, J.K.; Devareyalu, S.; Gellinas, R.E.
Proc. Natl. Acad. Sci. U.S.A. 84, 8869-8873, 1987
A:Title: Regulatory elements in the first intron contribute to transcriptional contro
A:Reference number: A9943; MUID:88097389; PMID:3480516
A:Accession: A9943
A:Molecule type: DNA
A:Residues: 1-34 <BOR>
A:Cross-references: GB:J03559; NID:9180876; PIDN:AA52052.1; PID:9553238
R:Chu, M.L.; de Wet, W.; Bernard, M.; Ramirez, F.
J. Biol. Chem. 260, 2315-2320, 1985
A:Title: Fine structural analysis of the human pro-alpha 1 (I) collagen gene. Promote
A:Reference number: I55237; MUID:85130970; PMID:2857713
A:Accession: I55237
A:Status: translation not shown; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-34 <CH2>
A:Cross-references: GB:M10627; NID:9180383; PIDN:AA51992.1; PID:9553226
R:Wirtz, M.K.; Keene, D.R.; Horst, H.; Glanville, R.W.; Steilmann, B.; Rao, V.H.; Holl
J. Biol. Chem. 265, 6312-6317, 1990
A:Title: In vivo and in vitro noncovalent association of excised alpha1(I) amino-term
rome, type VII
A:Reference number: A35233; MUID:90202908; PMID:2318855
A:Accession: A35233
A:Molecule type: protein
A:Residues: 33-52 <MRP>
A:Note: this propeptide fragment remained non-covalently bound to a defective, unclea
R:Well, D.; d'Alessio, M.; Ramirez, F.; de Wet, W.; Cole, W.G.; Chan, D.; Bateman, J.
EMBO J. 8, 1705-1710, 1989
A:Title: A base substitution in the exon of a collagen gene causes alternative splic
A:Reference number: S09400; MUID:89356643; PMID:2767050
A:Accession: S09400
A:Molecule type: mRNA
A:Residues: 156-183 <MEI>
R:Click, E.M.; Bornstein, P.
Biochemistry 9, 4699-4706, 1970
A:Title: Isolation and characterization of the cyanogen bromide peptides from the alp
A:Reference number: A90567; MUID:71038625; PMID:5529814
A:Contents: CNBR0-1, CNBR2, CNBR4, CNBR5
A:Accession: B90567
A:Molecule type: protein
A:Residues: 162-188, 'Z', 200-201, 'Z', 203-206, 'Z', 208-209, 'Z', 211-228, 'B', 230, 'BB', 233,
A:Experimental source: skin
A:Note: evidence for 170-allylsine
R:Baetge, B.; Notbohm, H.; Diebold, J.; Lehmann, H.; Bodo, M.; Deutzmann, R.; Mueller
Eur. J. Biochem. 192, 153-159, 1990
A:Title: A critical crosslink region in human-bone-derived collagen type I. Specific
A:Reference number: S11372; MUID:90382436; PMID:2169412
A:Accession: S11372
A:Molecule type: protein
A:Residues: 175-187, 274-287, 'P', 289 <BAE>
A:Note: sequence of collagen alpha 1(3)(I) isolated from bone after pepsin digestion
R:deak, S.B.; Scholz, P.M.; Ametia, P.S.; Constantinou, C.D.; Levi-Mizel, S.A.; Ganza
J. Biol. Chem. 266, 21827-21832, 1991
A:Title: The substitution of arginine for glycine 85 of the alpha 1(I) procollagen ch
operative melting of intact type I collagen.
A:Reference number: I55342; MUID:92042092; PMID:1718984
A:Accession: I55342
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA

A:Residues: 258-268,1347-1357 <DEA>
A:Cross-references: GB:S6795; NID:9239007; PIDN:AAB20350.1; PID:q239008
A:Note: sequences from the 5' and 3' ends only are shown; mutant sequence 263-Arg report
R:Morgan, P.H.; Jacobs, H.G.; Segrest, J.P.; Cunningham, L.W.
J. Biol. Chem. 245, 5042-5048, 1970
A:Title: Comparative study of glycopeptides derived from selected vertebrate collagens.
A:Reference number: A92069; MUID:71001508; PMID:4319110
A:Accession: A92069
A:Molecule type: protein
A:Residues: 263-268 <MOR>
A:Experimental source: skin
A:Note: attachment of 2-O-alpha-D-glucosyl-O-beta-D-galactose to 5-hydroxylysine
R:Labhard, M.E.; Hollister, D.W.
Matrix 10, 124-130, 1990
A:Title: Segmental amplification of the entire helical and telopeptide regions of the CT
A:Reference number: S15989; MUID:90326017; PMID:2375417
A:Accession: S15989
A:Molecule type: mRNA
A:Residues: 281-302;402-420;823-843;925-944;1026-1045;1143-1162 <LAB>
R:Wirtz, M.K.; Rao, V.H.; Glauville, R.W.; Labhard, M.E.; Pretorius, P.J.; de Vries, W.N.
Connect. Tissue Res. 29, 1-11, 1993
A:Title: A cysteine for glycine substitution at position 175 in an alpha 1 (I) chain of
A:Reference number: I52905; MUID:93339042; PMID:8339541
A:Accession: I52905
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 342-352, 'C', 354-359 <MID>
A:Cross-references: GB:S64717; NID:9408195; PIDN:AAB27677.1; PID:q408196
A:Note: mutant sequence from patient with osteogenesis imperfecta
R:Bernard, M.P.; Chu, M.L.; Myers, J.C.; Ramirez, F.; Elkemberry, E.F.; Prockop, D.J.
Biochemistry 22, 5213-5223, 1983
A:Title: Nucleotide sequences of complementary deoxyribonucleic acids for the proalpha1
A:Reference number: A90476; MUID:84080385; PMID:6689127
A:Accession: A90476
A:Molecule type: mRNA
A:Residues: 425-1250, 'X', 1252-1328, 'S', 1330-1390, 'X', 1392-1464 <BER>
A:Cross-references: GB:K01228; NID:9180391; PIDN:AA51995.1; PID:q180392
A:Note: sequence partially completed for missing nucleotides by A29439
R:Chu, M.L.; Gargiulo, V.; Williams, C.J.; Ramirez, F.
J. Biol. Chem. 260, 691-694, 1985
A:Title: Multixon deletion in an osteogenesis imperfecta variant with increased type I
A:Reference number: A22161; MUID:85104934; PMID:2981843
A:Accession: A22161
A:Molecule type: DNA
A:Residues: 472-594, 'R', 596-607 <CH3>
A:Cross-references: GB:K03178; GB:K03179; NID:q179613; NID:q179613; PIDN:AA51847.1; PID:
A:Note: the authors translated the codon CGT for residue 595 as Pro
R:Wallis, G.A.; Starman, B.J.; Zinn, A.B.; Byers, P.H.
Am. J. Hum. Genet. 46, 1034-1040, 1990
A:Title: Variable expression of osteogenesis imperfecta in a nuclear family is explained
A:Reference number: A35336; MUID:90252792; PMID:2339700
A:Accession: A35336
A:Molecule type: mRNA
A:Residues: 710-720, 'E', 722-737, 'E', 739-745 <NAL>
A:Note: the authors translated the codons CAG for 721 and CGT for 738 as Glu
R:Forlino, A.; Zolozzi, F.; Valli, M.; Pignatelli, P.F.; Cetta, G.; Brunelli, P.C.; Motte
Hum. Mol. Genet. 3, 2201-2206, 1994
A:Title: Severe (type III) osteogenesis imperfecta due to glycine substitutions in the C
A:Reference number: I54365; MUID:95187161; PMID:7881420
A:Accession: I54365
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 746-766, 'S', 768-781 <FOR>
A:Cross-references: GB:U47667; NID:91009093; PIDN:AAB59576.1; PID:q1009094
R:Chessler, S.D.; Wallis, G.A.; Byers, P.H.
J. Biol. Chem. 268, 18218-18225, 1993
A:Title: Mutations in the carboxyl-terminal propeptide of the pro alpha 1(I) chain of ty
A:Reference number: A47426; MUID:93352646; PMID:8349697
A:Accession: A47426
A:Molecule type: mRNA
A:Residues: 1179-1276, 'H', 1278-1336, 1339-1387, 'R', 1389-1464 <CHE>
A:Cross-references: GB:S64596; NID:9407589; PIDN:AAB27856.1; PID:9407590

A:Note: sequence extracted from NCBI backbone (NCBIN:136444, NCBI:136445)
A:Note: does not represent an experimentally determined sequence but three different
A:Accession: B47426
A:Molecule type: mRNA
A:Residues: 1179-1464 <CH4>
A:Experimental source: normal dermal fibroblast culture
A:Accession: C47426
A:Molecule type: mRNA
A:Residues: 1179-1276, 'H', 1278-1464 <CH5>
A:Experimental source: fetal cell 86-237
A:Accession: D47426
A:Molecule type: mRNA
A:Residues: 1179-1336, 1339-1464 <CH6>
A:Experimental source: fetal cell 86-146
A:Accession: E47426
A:Molecule type: mRNA
A:Residues: 1179-1387, 'R', 1389-1464 <CH7>
A:Experimental source: fetal cell 88-251
R:Chu, D.H.; Apone, S.; Eyre, D.R.; Starman, B.J.; Andreassen, P.; Charbonneau, H.;
J. Biol. Chem. 263, 14605-14607, 1988
A:Title: Substitution of Cysteine for Glycine within the Carboxyl-terminal Telopeptid
A:Reference number: I55269; MUID:89008319; PMID:3170557
A:Accession: I55269
A:Status: translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1187-1194, 'C', 1196-1220 <CON>
A:Cross-references: GB:M23213; NID:9340842; PIDN:AAB59363.1; PID:q499622
A:Note: mutant sequence from a patient with mild osteogenesis imperfecta
R:Meckelae, J.K.; Raassina, M.; Virts, A.; Vuorio, E.
Nucleic Acids Res. 16, 349, 1988
A:Title: Human pro-alpha-1(I) collagen: cDNA sequence for the C-propeptide domain.
Query Match 3.7%; Score 9; DB 1; Length 1464;
Best Local Similarity 100.0%; Pred. No. 4.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 63 PGRDSPA 71
DB 1024 PGRDSPA 1032
RESULT 7
A60111
sporozoite antigen - Elmeria tenella (fragment)
C:Species: Elmeria tenella
C:Date: 09-Oct-1992 #sequence_revision 09-Oct-1992 #text_change 17-Jul-1994
C:Accession: A60111
R:Miller, G.A.; Bhogal, B.S.; McCandliss, R.; Strausberg, R.L.; Jessee, E.J.; Anderso
Infect. Immun. 57, 2014-2020, 1989
A:Title: Characterization and vaccine potential of a novel recombinant coccidial anti
A:Reference number: A60111; MUID:8927516; PMID:2659532
A:Accession: A60111
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-112 <MID>
Query Match 3.3%; Score 8; DB 2; Length 112;
Best Local Similarity 100.0%; Pred. No. 4.6;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 16 LLLLLLLO 23
DB 3 LLLLLLLO 10
RESULT 8
lutein beta chain precursor [validated] - human
M:Alternate names: Interstitial cell-stimulating hormone (ICSH) beta chain; lutein
C:Species: Homo sapiens (man)
C:Date: 13-Jul-1981 #sequence_revision 24-Nov-1999 #text_change 20-Apr-2001
C:Accession: I37994; I58013; A90604; A92759; A94466; A01497; B94552
R:Ratnadge, K.; Vamvakopoulos, N.C.; Fiddes, J.C.

A:Reference number: PC1016
 A:Accession: PC1016
 A:Molecule type: protein
 A:Residues: 21-165 <SH>
 A:Note: article in Chinese with English abstract
 R:Birken, S.; Armstrong, E.G.; Kolke, M.A.G.; Cole, L.A.; Agosto, G.M.; Krichinsky, A.; Endocrinology 123, 572-583, 1988
 A:Title: Structure of the human chorionic gonadotropin beta-subunit fragment from pregnancy
 A:Reference number: A61097; MUID:88254680; PMID:2454811
 A:Accession: A61097
 A:Molecule type: protein
 A:Residues: 26-32, 'X', 34-49, 'X', 51-60; 75-112 <BI2>
 A:Note: this material from pregnancy urine lacks static acid in its carbohydrate and has R:Kardana, A.; Bagshaw, K.D.; Coles, B.; Read, D.; Taylor, M.
 Br. J. Cancer 67, 686-692, 1993
 A:Title: Characterisation of UGP and its relationship with beta-core fragment.
 A:Reference number: A56873; MUID:93229246; PMID:8471426
 A:Accession: B56873
 A:Molecule type: protein
 A:Residues: 26-28, 'X', 30-32, 'X', 34-42, 'X', 44-45, 'X', 47-48; 75-76, 'X', 78-91, 'G', 93-102 <K>
 A:Experimental source: urine
 A:Note: sequence modified after extraction from NCBI backbone
 A:Note: this material was designated urinary gonadotropin peptide (peak 2)
 R:Raphorn, A.J.; Harris, D.C.; Littlejohn, A.; Lustbader, J.W.; Canfield, R.E.; Machin, Nature 369, 455-461, 1994
 A:Title: Crystal structure of human chorionic gonadotropin.
 A:Reference number: A44674; MUID:94261179; PMID:8202136
 A:Contents: annotation; X-ray crystallography, 3.0 angstroms; correction of disulfide bc R:Ritlandge, K.; Vamvakopoulos, N.C.; Fildes, J.C.
 Nature 307, 37-40, 1984
 A:Title: Evolution of the genes for the beta subunits of human chorionic gonadotropin an
 A:Reference number: I37231; MUID:84093390; PMID:6690982
 A:Accession: I37412
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 21-165 <RES>
 C:Genetics:
 A:Cross-references: EMBL:X00265; NID:g31719; PIDN:CAA25068.1; PID:g1335075
 C:Genetics:
 A:Gene: GDB:CG8
 A:Cross-references: GDB:119055; OMIM:118860
 A:Map position: 19q13.3-19q13.3
 A:Introns: 5/3; 61/3
 A:Note: the chorionadotropin beta chain locus contains six genes (or pseudogenes)
 C:Superfamily: pituitary glycoprotein hormone beta chain
 C:Keywords: glycoprotein, hormone; pituitary
 F:1-20/Domain: signal sequence #status experimental <SIG>
 F:21-165/Product: chorionadotropin beta chain #status experimental <MAT>
 F:29-77,43-92,46-108,58-110,113-120/Disulfide bonds: #status experimental
 F:33,50/Binding site: carbohydrate (Asn) (covalent) #status experimental
 F:138,150/Binding site: carbohydrate (Ser) (covalent) #status predicted
 F:141,147,152,158/Binding site: carbohydrate (Ser) (covalent) #status experimental

Query Match 3.3%; Score 8; DB 1; Length 165;
 Best Local Similarity 100.0%; Pred. No. 6.4;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 GILLLLLL 22
 |||||
 Db 6 GILLLLLL 13

RESULT 10
 T18321
 hypothetical protein L7610.12 - Leishmania major
 C:Species: Leishmania major
 C>Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 11-Jan-2002
 C:Accession: T18321
 R:Olliver, K.; Murphy, L.; Quail, M.; Lawson, D.; Harris, D.; Rajandream, M.; Ivens, A.; submitted to the EMBL Data Library, May 1999
 A:Reference number: Z18876
 A:Accession: T18321
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA

A:Residues: 1-169 <OLI>
 A:Cross-references: EMBL:AL034356; NID:e1371878; PIDN:CAA22247.1
 C:Genetics:
 A:Note: L7610.12

Query Match 3.3%; Score 8; DB 2; Length 169;
 Best Local Similarity 100.0%; Pred. No. 6.6;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 6 PAASPORT 13
 |||||
 Db 18 PAASPORT 25

RESULT 11
 S37749
 collagen alpha 2(XIV) chain - human (fragment)
 C:Species: Homo sapiens (man)
 C>Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 08-Dec-1995
 C:Accession: S37749
 R:Brown, J.C.; Golbik, R.; Mann, K.; Timpl, R. submitted to the EMBL Data Library, October 1993
 A:Description: Structure and stability of the triple helical domains of human collage
 A:Reference number: S37749
 A:Accession: S37749
 A:Molecule type: protein
 A:Residues: 1-177 <BRO>
 C:Comment: Prolines and lysines at the third position of the tripeptide repeating unit and subsequently O-glycosylated.
 C:Genetics:
 A:Gene: COL14A2
 C:Complex: type XIV collagen may be a heterotrimer of alpha 1(XIV) chains and one alp
 C:Function:
 A:Description: structural component of extracellular fibrous polymer associated with
 C:Superfamily: collagen alpha 1(XIV) chain; fibronectin type III repeat homology; von
 C:Keywords: coiled coil; extracellular matrix; glycoprotein; hydroxylysine; hydroxypr
 F:9,24,39,45,59,62,74,80,86,92,98,106,109,116,119,122,137,140/Modified site: 4-hydrox
 F:12/Modified site: 4-hydroxyproline (Pro) (partial) #status experimental
 F:18,143/Modified site: 5-hydroxylysine (Lys) #status experimental
 F:18,27,143/Binding site: carbohydrate (Lys) (covalent) #status experimental
 F:27/Modified site: 5-hydroxylysine (Lys) (partial) #status experimental

Query Match 3.3%; Score 8; DB 2; Length 177;
 Best Local Similarity 100.0%; Pred. No. 6.8;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 63 PGKDSPPG 70
 |||||
 Db 86 PGKDSPPG 93

RESULT 12
 T35724
 cobalt transport integral membrane protein - streptomycetes coelicolor
 C:Species: Streptomyces coelicolor
 C>Date: 05-Nov-1999 #sequence_revision 05-Nov-1999 #text_change 17-Mar-2000
 C:Accession: T35724
 R:Murphy, L.; Harris, D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A. submitted to the EMBL Data Library, January 1998
 A:Reference number: Z21548
 A:Accession: T35724
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-249 <MUR>
 A:Cross-references: EMBL:AL021411; PIDN:CAA16216.1; GSPDB:GN00070; SCOPEDB:SC7H1.29c
 A:Experimental source: strain A3(2)
 C:Genetics:
 A:Gene: cbtQ; SCOPEDB:SC7H1.29c
 C:Superfamily: cobalt transport protein Q homolog

Query Match 3.3%; Score 8; DB 2; Length 249;
 Best Local Similarity 100.0%; Pred. No. 9.1;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 58 GPAGVPCR 65
 |||||||
 Db 54 GPAGVPCR 61

RESULT 13

138427
 4-1BB ligand - human
 C:Species: Homo sapiens (man)
 C:Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 21-Jul-2000
 C:Accession: 138427
 R:Altersson, M.R.; Smith, C.A.; Tough, T.W.; Davis-Smith, T.; Armitage, R.J.; Falk, B.; F
 Eur. J. Immunol. 24, 2219-2227, 1994
 A:Title: Molecular and biological characterization of human 4-1BB and its ligand.
 A:Reference number: 138426; MUID:94374434; PMID:8088337
 A:Accession: 138427
 A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: mRNA
 A:Residues: 1-254 <RES>
 A:Cross-references: EMBL:U03398; NID:g571322; PIDN:AAA53134.1; PID:g571323

Query Match 3.3%; Score 8; DB 2; Length 254;
 Best Local Similarity 100.0%; Pred. No. 9.3;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 GLLLLLLL 22
 |||||||
 Db 34 GLLLLLLL 41

RESULT 14

B60131
 homeotic protein Xhox-7.1' - African clawed frog (fragment)
 C:Species: Xenopus laevis (African clawed frog)
 C:Date: 22-Jan-1993 #sequence_revision 22-Jan-1993 #text_change 24-Sep-1999
 C:Accession: B60131; S14514
 R:Su, M.W.; Suzuki, H.R.; Solursh, M.; Ramirez, F.
 Development 111, 1179-1187, 1991
 A:Title: Progressively restricted expression of a new homeobox-containing gene during Xe
 A:Reference number: A60131; MUID:91347929; PMID:1679007
 A:Accession: B60131
 A:Status: nucleic acid sequence not shown
 A:Molecule type: mRNA
 A:Residues: 1-9, 'P', 11-291 <SUA>
 A:Cross-references: EMBL:X58772
 R:Su, M.W.; Suzuki, H.R.; Solursh, M.; Ramirez, F.
 submitted to the EMBL Data Library, December 1990
 A:Reference number: S14513
 A:Accession: S14514
 A:Molecule type: mRNA
 A:Residues: 1-291 <SUA>
 A:Cross-references: EMBL:X58772; NID:g64784; PIDN:CAA41573.1; PID:g64785
 C:Superfamily: unassigned homeobox proteins; homeobox homology
 C:Keywords: DNA binding; homeobox; nucleus; transcription regulation
 F:161-217/Domain: homeobox homology <HOX>

Query Match

3.3%; Score 8; DB 2; Length 291;
 Best Local Similarity 100.0%; Pred. No. 10;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 16 LLLLLLLQ 23
 |||||||
 Db 6 LLLLLLLQ 13

RESULT 15

T24827
 hypothetical protein T11B7.3 - Caenorhabditis elegans
 C:Species: Caenorhabditis elegans
 C:Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 21-Jan-2000
 C:Accession: T24827
 R:Gardner, A.

submitted to the EMBL Data Library, September 1995
 A:Reference number: T24827
 A:Accession: T24827

A:Status: preliminary; translated from GB/EMBL/DBJ
 A:Molecule type: DNA
 A:Residues: 1-296 <MIL>
 A:Cross-references: EMBL:Z54237; PIDN:CAA90989.1; GSPDB:GN00022; CESP:T11B7.3
 A:Experimental source: clone T11B7
 C:Genetics:
 A:Gene: CESP:T11B7.3
 A:Map position: 4
 A:Introns: 45/3; 111/1; 270/1
 C:Superfamily: unassigned collagens

Query Match 3.3%; Score 8; DB 2; Length 296;
 Best Local Similarity 100.0%; Pred. No. 11;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 78 PGIPGRDG 85
 |||||||
 Db 266 PGIPGRDG 273

Search completed: August 13, 2003, 13:41:08
 Job time : 40 secs

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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:28:47 ; Search time 23 Seconds

(without alignments)
496.847 Million cell updates/sec

Title: US-09-938-418-7

Sequence: 1 MRPGPASPAPRLRGILL...GDASTGMSVSRITIELPK 243

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 127863 seqs, 47026705 residues

Word size : 6

Total number of hits satisfying chosen parameters: 1289

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	9	3.7	120	GON2_HUMAN	043555 homo sapien
2	9	3.7	133	KJ23_YEAST	P47094 saccharomyc
3	9	3.7	779	CA11_BOVIN	P02453 bos taurus
4	9	3.7	813	CADM_RAT	063315 rattus norv
5	9	3.7	905	AT88_MOUSE	P57110 mus musculu
6	9	3.7	1464	CA11_HUMAN	P02452 homo sapien
7	8	3.3	141	LSHB_HUMAN	P01229 homo sapien
8	8	3.3	165	CGHB_HUMAN	P01223 homo sapien
9	8	3.3	233	RS3_BUCAP	08K936 buchiera ap
10	8	3.3	246	MOG_MOUSE	P41273 homo sapien
11	8	3.3	254	TNFP_HUMAN	P41273 homo sapien
12	8	3.3	291	HXP_XENTLA	P35993 xenopus lae
13	8	3.3	365	WNT6_HUMAN	09Y669 homo sapien
14	8	3.3	424	GSA_AQUAE	066998 aquilex aeo
15	8	3.3	457	CD4_MOUSE	P06332 mus musculu
16	8	3.3	487	CP51_MOUSE	P03940 mus musculu
17	8	3.3	500	CAMA_MOUSE	P51942 mus musculu
18	8	3.3	636	CA13_RAT	P13941 rattus norv
19	8	3.3	652	CD93_HUMAN	09NP3 homo sapien
20	8	3.3	674	CA1A_CHICK	09H815 gallus gall
21	8	3.3	787	SMO_HUMAN	099885 homo sapien
22	8	3.3	809	NAH2_RABIT	P50482 oryctolagus
23	8	3.3	832	SM4B_HUMAN	09NP2 homo sapien
24	8	3.3	984	PK12_HUMAN	016513 homo sapien
25	8	3.3	1019	CA26_HUMAN	P12110 homo sapien
26	8	3.3	1029	CA26_MOUSE	002768 mus musculu
27	8	3.3	1103	CYGD_HUMAN	002846 homo sapien
28	8	3.3	1108	CYGE_MOUSE	P52785 mus musculu
29	8	3.3	1168	CYGE_RAT	P51840 rattus norv
30	8	3.3	1266	NGCA_CHICK	003696 gallus gall
31	8	3.3	1278	NPQ1_MOUSE	035604 mus musculu
32	8	3.3	1355	CA21_HUMAN	042350 rana catesb
33	8	3.3	1388	CA1E_HUMAN	P39059 homo sapien

34	8	3.3	1460	CA11_CANFA	Q9X57 canis fam11
35	8	3.3	1464	CA13_MOUSE	P08121 mus musculu
36	8	3.3	1466	CA13_HUMAN	P02453 homo sapien
37	8	3.3	1531	MRP1_HUMAN	P33527 homo sapien
38	8	3.3	1564	MRP2_RABIT	028689 oryctolagus
39	7	2.9	31	LP1_BUCRP	Q53017 buchiera ap
40	7	2.9	61	DNB1_BFDV	P13893 budgerigar
41	7	2.9	77	ENV_SMSAV	P03384 simian sarc
42	7	2.9	77	ENV_ARCFU	028694 archaeoglob
43	7	2.9	84	HEPC_HUMAN	P81172 homo sapien
44	7	2.9	100	MI2B_RAT	Q10747 rattus norv
45	7	2.9	101	GRO_CRIGR	P09340 cricetus

ALIGNMENTS

RESULT 1
GON2_HUMAN STANDARD; PRT; 120 AA.
ID GON2_HUMAN
AC 04355; 09BYN9; 09BYP0;
DT 15-DEC-1998 (Rel. 37, Created)
DT 15-DEC-1998 (Rel. 37, Last sequence update)
DE Progonadoliberin II precursor [Contains: Gonadoliberin II (LH-RH II) (Luteinizing hormone-releasing hormone II) (Gonadotropin-releasing hormone II) (GnRH II) (Lutiberin II); GnRH-associated peptide II).
GN GNRH2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID:9606;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RX MEDLINE-98081869; PubMed-9419371.
RA White R.B., Eisen J.A., Kasten T.L., Fernald R.D.;
RT "Second gene for gonadotropin-releasing hormone in humans.";
RL Proc. Natl. Acad. Sci. U.S.A. 95:305-309(1998).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORMS 1; 2 AND 3).
RX MEDLINE-21638749; PubMed-11780052;
RA Deloukas P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R.,
RA Jones M., Stavrides G., Almeida J.P., Babbage A.K., Bagguley C.L.,
RA Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M.,
RA Beasley O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Brown A.J.,
RA Buck D., Burrill W.D., Butler A.P., Carder C., Carter N.P.,
RA Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M.,
RA Clegg S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R.,
RA Coulson A., Coville G.J., Deadman R., Dhani P.D., Dunn M.,
RA Ellington A.G., Frankland J.A., Fraser A., French L., Garner P.,
RA Grafham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E.,
RA Hammond S., Harley J.L., Heath P.D., Ho S., Holden J.L., Howden P.J.,
RA Huckle E., Hunt A.R., Hunt S.E., Jekoson K., Johnson C.M., Johnson D.,
RA Kay M.P., Kimberley A.M., King A., Knights A., Laird G.R., Lawlor S.,
RA Lelevarasliho M.H., Leverisha M.A., Lloyd C., Lloyd D.M., Lovell J.D.,
RA Marsh V.L., Martin S.L., McConachie L.J., McIay K., McMuray A.A.,
RA Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nicholson T.,
RA Oliver K., Parker A., Patel R., Pearce T.A.V., Peck A.I.,
RA Phillimore B.J.C.T., Prathalingam S.R., Plumb R.W., Ramsay H.,
RA Rice C.M., Ross M.T., Scott C.E., Sehra H.K., Showkeen R., Sims S.,
RA Skuse C.D., Smith M.L., Soderlund C., Steward C.A., Sulston J.E.,
RA Swann R.M., Symcote N., Taylor R., Taylor R., Thomas D.M., Thorpe A.,
RA Tracey A., Tromans A.C., Vaudin M., Wall M., Wallis J.M., Williams S.A.,
RA Whitehead S.L., Whitaker P., Willey D.L., Williams L., Williams S.A.,
RA Wilming L., Wray P.M., Hubbard T., Durbin R.M., Bentley D.R., Beck S.,
RA Rogers J.;
RT "The DNA sequence and comparative analysis of human chromosome 20.";
RL Nature 414:865-871(2001).
CC -!- FUNCTION: STIMULATES THE SECRETION OF GONADOTROPINS. IT STIMULATES
CC THE SECRETION OF BOTH LUTEINIZING AND FOLLICLE-STIMULATING
CC HORMONES.
CC -!- SUBCELLULAR LOCATION: Secreted.
CC -!- ALTERNATIVE PRODUCTS:

CC Event-Alternative splicing: Named isoforms-3;
 CC Comment-Experimental confirmation may be lacking for some
 CC Isoforms;
 CC Name-1;
 CC IsoId=043555-1; Sequence=Displayed;
 CC Name-2;
 CC IsoId=043555-2; Sequence=VSP_001825;
 CC Name-3;
 CC IsoId=043555-3; Sequence=VSP_001826;
 CC TISSUE SPECIFICITY: MIDBRAIN; EXPRESSED AT SIGNIFICANTLY HIGHER
 CC LEVELS OUTSIDE THE BRAIN (UP TO 30-FOLD), PARTICULARLY IN THE
 CC KIDNEY, BONE MARROW, AND PROSTATE.
 CC -1 SIMILARITY: Belongs to the GNRH family.
 CC -----
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 CC -----
 DR EMBL AF036329; AAC02980.1; -;
 DR EMBL AF036330; AAC02981.1; -;
 DR EMBL AL121905; CAC10338.1; -;
 DR EMBL AL121905; CAC29100.1; -;
 DR EMBL AL121905; CAC29101.1; -;
 DR Genew; HGNC:4420; GNRH2.
 DR MIM; 602352; -;
 DR GO; GO:0005625; C:soluble fraction; TAS.
 DR GO; GO:0005179; P:hormone activity; TAS.
 DR GO; GO:0007165; P:signal transduction; TAS.
 DR InterPro; IPR002012; GNRH.
 DR Pfam; PF00446; GNRH; 1.
 DR PROSITE; PS00473; GNRH; 1.
 KM Cleavage on pair of basic residues: Hormone; Amidation; Signal;
 KM Alternative splicing: Pyrrolidone carboxylic acid.
 FT SIGNAL 1 23
 FT CHAIN 24 120 PROGNADOLIBERIN II.
 FT PEPTIDE 24 33 GONADOLIBERIN II.
 FT PEPTIDE 39 120 GNRH-ASSOCIATED PEPTIDE II.
 FT MOD_RES 24 24 PYRROLIDONE CARBOXYLIC ACID
 (BY SIMILARITY).
 FT MOD_RES 33 33 AMIDATION (G-34 PROVIDE AMIDE GROUP).
 FT VARSPPLIC 52 59 Missing (in isoform 2).
 FT VARSPPLIC 52 58 /FTID=VSP_001825.
 FT VARSPPLIC 52 58 Missing (in isoform 3).
 FT VARSPPLIC 52 58 /FTID=VSP_001826.
 SQ SEQUENCE 120 AA; 12917 MW; D58CDA14B6D6FB8D CRC64;
 Query Match 3.7%; Score 9; DB 1; Length 120;
 Best Local Similarity 100.0%; Pred. No. 0.34;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 14 RGLILLLL 22
 DB 6 RGLILLLL 14
 RESULT 2
 YJ23_YEAST
 ID YJ23_YEAST STANDARD; PRT; 133 AA.
 AC P47094;
 DT 01-FEB-1996 (Rel. 33; Created)
 DT 01-FEB-1996 (Rel. 33; Last sequence update)
 DT 15-DEC-1998 (Rel. 37; Last annotation update)
 DE Hypothetical 15.3 kDa protein in MER2-BNA1 intergenic region.
 GN YJ0823C OR J1470 OR YJ083.19.
 OS Saccharomyces cerevisiae (Baker's yeast).
 OC Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
 OC Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
 OX NCBI_TaxID=4932;
 RN [1]

RP SEQUENCE FROM N.A.
 RC STRAIN-S288c / FY1679;
 RA de Haan M., Smits P.H.M., Grievell L.A.;
 RL Submitted (MAY-1995) to the EMBL/Genbank/DBJ databases.
 RN [2]
 RP SEQUENCE OF 13-93 FROM N.A.
 RX MEDLINE=9610930; PubMed=8619316;
 RA Zagliski M., Babinska B., Gromadka R., Migdalski A., Rytko J.,
 RA Sulicka J., Herbert C.J.;
 RT The sequence of 24.3 kb from chromosome X reveals five complete open
 RT reading frames, all of which correspond to new genes, and a tandem
 RT insertion of a Ty1 transposon.
 RL Yeast 11:1179-1186(1995).
 CC -----
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 CC -----
 DR EMBL X87611; CAA60946.1; -;
 DR EMBL Z49522; CAA89548.1; -;
 DR PIR; S57038; S57038.
 DR SCD; S0003784; YJ023C.
 KW Hypothetical protein; Transmembrane.
 FT TRANSMEM 8 28
 FT TRANSMEM 46 66 POTENTIAL.
 FT DOMAIN 10 30 POLY-LEU.
 FT CONFLICT 28 28 MISSING (IN REF. 1).
 SQ SEQUENCE 133 AA; 15282 MW; 4303172FE2500008 CRC64;
 Query Match 3.7%; Score 9; DB 1; Length 133;
 Best Local Similarity 100.0%; Pred. No. 0.37;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 16 LLLILLQL 24
 DB 22 LLLILLQL 30
 RESULT 3
 CAL_BOVIN
 ID CAL_BOVIN STANDARD; PRT; 779 AA.
 AC P02453;
 DT 21-JUL-1986 (Rel. 01; Created)
 DT 01-FEB-1994 (Rel. 28; Last sequence update)
 DT 28-FEB-2003 (Rel. 41; Last annotation update)
 DE Collagen alpha 1(I) chain (fragments).
 GN COL1A1.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE OF 1-19.
 RX MEDLINE=7225334; PubMed=4115172;
 RA Rautenberg J., Timpl R., Furtmayr H.;
 RT "Structural characterization of N-terminal antigenic determinants in
 RT calf and human collagen."
 RL Eur. J. Biochem. 27:231-237(1972).
 RN [2]
 RP SEQUENCE OF 20-145.
 RX MEDLINE=7602320; PubMed=1164916;
 RA Fietzek P.P., Kuehn K.;
 RT "The covalent structure of collagen: amino-acid sequence of the
 RT cyanogen-bromide peptides alpha-1-CB2, alpha-1-CB4 and alpha-1-CB5
 RT from calf-skin collagen."
 RL Eur. J. Biochem. 52:77-82(1975).
 RN [3]
 RP SEQUENCE OF 146-294.

RX MEDLINE-73049499; PubMed-4673951.
 RA Fletzek P.P., Wendt P., Kell I., Kuehn K.;
 RT "The covalent structure of collagen: amino acid sequence of alpha-1-
 RT C3 from calf skin collagen.";
 RL FEBS Lett. 26:74-76(1972).
 RN
 RP SEQUENCE OF 295-562.
 RX MEDLINE-74086118; PubMed-4359390;
 RA Fletzek P.P., Rexrodt F.W., Hopper K.E., Kuehn K.;
 RT "The covalent structure of collagen. 2. The amino-acid sequence of
 RT alpha-1-CB7 from calf-skin collagen.";
 RL Eur. J. Biochem. 38:396-400(1973).
 RN
 RP SEQUENCE OF 563-675.
 RX MEDLINE-73042276; PubMed-4343808;
 RA Wendt P., Mark K.V.D., Rexrodt F., Kuehn K.;
 RT "The covalent structure of collagen. The amino-acid sequence of the
 RT 112-residues. Amino-terminal part of peptide alpha-1-CB6 from calf-
 RT skin collagen.";
 RL Eur. J. Biochem. 30:169-183(1972).
 RN
 RP SEQUENCE OF 676-751.
 RX MEDLINE-73042275; PubMed-4343807;
 RA Fletzek P.P., Rexrodt F.W., Wendt P., Stark M., Kuehn K.;
 RT "The covalent structure of collagen. Amino-acid sequence of peptide
 RT alpha-1-CB6-C2.";
 RL Eur. J. Biochem. 30:163-168(1972).
 CC
 CC -1- FUNCTION: TYPE I COLLAGEN IS A MEMBER OF GROUP I COLLAGEN
 CC (FIBRILLAR FORMING COLLAGEN).
 CC
 CC -1- SUBUNIT: TRIMERS OF ONE ALPHA 2(I) AND TWO ALPHA 1(I) CHAINS.
 CC
 CC -1- TISSUE SPECIFICITY: FORMS THE FIBRILS OF TENDON, LIGAMENTS AND
 CC BONES. IN BONES THE FIBRILS ARE MINERALIZED WITH CALCIUM
 CC HYDROXYAPATITE.
 CC
 CC -1- PPM: Proline residues at the third position of the tripeptide
 CC repeating unit (G-X-Y) are hydroxylated in some or all of the
 CC chains. Pro-726 is the only 3-hydroxypro and the only hydroxylated
 CC proline in position X.
 CC
 CC -1- PPM: O-linked glycan consists of a Glc-Gal disaccharide bound to
 CC the oxygen atom of a post-translationally added hydroxyl group.
 CC
 CC -1- MISCELLANEOUS: THE COMPLETE CHAIN CONTAINS 1052 RESIDUES.
 CC
 CC PIR: A91193; CGB015.
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR001007; WVF_C.
 DR ProDom: PD000007; C1g_helix; 1.
 DR PROSITE: PS01208; WVF_C_1; PARTIAL.
 KM Extracellular matrix; Connective tissue; Repeat; Hydroxylation;
 KM Glycoprotein; Collagen; Pyrrolidone carboxylic acid.
 FT MOD_RES 1 1
 FT MOD_RES 9 9
 FT MOD_RES 103 103
 FT CARBOHYD 103 103
 FT MOD_RES 115 115
 FT MOD_RES 124 124
 FT MOD_CONS 145 146
 FT MOD_RES 274 274
 FT MOD_RES 346 346
 FT MOD_RES 424 424
 FT MOD_RES 496 496
 FT MOD_RES 658 658
 FT MOD_RES 670 670
 FT MOD_RES 726 726
 FT MOD_RES 779 779
 SQ SEQUENCE 779 AA; 70346 MW; E554A7FF084283D1 CRC64;

Query Match 3.7%; Score 9; DB 1; Length 779;
 Best Local Similarity 100.0%; Pred. No. 1.7;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDSPA 71
 DB 586 PGRDSPA 594

RESULT 4
 ID CDM_RAT STANDARD; PRT; 813 AA.
 AC 063315; 063561;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Cadherin-22 precursor (PB-cadherin).
 GN CDH22.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN
 RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2), AND CHARACTERIZATION.
 RC STRAIN=Wistar; TISSUE=Brain, and Pituitary;
 RX MEDLINE-9621232; PubMed-8626716;
 RA Sugimoto K., Honda S., Yamamoto T., Ueki T., Monden M., Kajl A.,
 RA Matsumoto K., Nakamura T.;
 RT "Molecular cloning and characterization of a newly identified member
 RT of the cadherin family, PB-cadherin.";
 RL J. Biol. Chem. 271:11548-11556(1996).
 CC
 CC -1- FUNCTION: Cadherins are calcium dependent cell adhesion proteins.
 CC They preferentially interact with themselves in a homophilic
 CC manner in connecting cells; cadherins may thus contribute to the
 CC sorting of heterogeneous cell types. PB-cadherins may have a role
 CC in the morphological organization of pituitary gland and brain
 CC tissues.
 CC
 CC -1- SUBCELLULAR LOCATION: Type I membrane protein.
 CC
 CC -1- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=2;
 CC Name=1;
 CC Name=2;
 CC IsoId=063315-1; Sequence=Displayed;
 CC IsoId=063315-2; Sequence=VSP_000643, VSP_000644;
 CC Note=No experimental confirmation available;
 CC
 CC -1- TISSUE SPECIFICITY: Strongly expressed in the pituitary gland and
 CC the brain (in the inner granular and glomerular layers of the
 CC olfactory bulb, anterior olfactory nucleus, primary olfactory
 CC cortex, Purkinje cell layer of cerebellum, and pineal gland). Low
 CC expression in lung and heart. No expression in submandibular
 CC gland, thymus, liver, spleen, adrenal, and kidney.
 CC
 CC -1- DEVELOPMENTAL STAGE: Expressed strongly in fetal brain.
 CC
 CC -1- SIMILARITY: Contains 5 cadherin domains.
 CC
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 CC
 CC -----
 DR EMBL; D83348; BA011894.1; -;
 DR EMBL; D83349; BA011895.1; -;
 DR HSSP; P15116; INCU.
 DR InterPro: IPR002126; Cadherin.
 DR InterPro: IPR000233; Cadherin.
 DR Pfam; PF00028; cadherin_5.
 DR Pfam; PF01043; Cadherin_C-term; 1.
 DR PRINTS; PR0205; CADHERIN.
 DR SMART; SM00112; CA; 5.
 DR PROSITE; PS00232; CADHERIN_1; 2.
 DR PROSITE; PS0268; CADHERIN_2; 5.
 KW Cell adhesion; Glycoprotein; Transmembrane; Calcium-binding; Repeat;
 KW Signal; Alternative splicing.
 FT SIGNAL 1 33
 FT CHAIN 34 813
 FT DOMAIN 33 621
 FT TRANSMEM 622 642
 FT DOMAIN 643 813
 FT DOMAIN 61 165
 FT DOMAIN 166 274
 FT DOMAIN CADHERIN 2.
 FT DOMAIN CADHERIN 1.
 FT DOMAIN CADHERIN 2.

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FT DOMAIN 275 391 CADERIN 3.
FT DOMAIN 392 495 CADERIN 4.
FT DOMAIN 496 613 CADERIN 5.
FT CARBOHYD 159 159 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 463 463 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 609 609 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 668 694 NDEGGEQDEADYMSALRELYGDEL -> TLGSHRGTS
/FTID-VSP.000643.
/FTID-VSP.000643.
Missing (in isoform 2).
FT VARSPLIC 695 813 /FTID-VSP.000644.
/FTID-VSP.000644.
SQ SEQUENCE 813 AA; 87978 MW; 30BEA60B5D2D467B CRC64;

Query Match
Best Local Similarity 3.7%; Score 9; DB 1; Length 813;
Matches 9; Conservative 100.0%; Pred. No. 1.8;
Mismatches 0; Indels 0; Gaps 0;

Db 16 LLLLLLQL 24
19 LLLLLLQL 27

RESULT 5
AT8_MOUSE STANDARD; PRT; 905 AA.
ID P57110;
AC 16-OCT-2001 (Rel. 40, Created)
DE 16-OCT-2001 (Rel. 40, Last sequence update)
DE 28-FEB-2003 (Rel. 41, Last annotation update)
DE ADAMS-8 precursor (EC 3.4.24.-) (A disintegrin and metalloproteinase
with thrombospondin motifs 8) (ADAM-TS 8) (ADAM-TS8) (METH-2).
GN ADAMTS8.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
ON NCBI_TaxID=10090;
RN [1]
RX MEDLINE=20079168; PubMed=10610729;
RA Georgiadis K.E., Hitchata S., Seldin M.F., Apte S.S.;
RT "ADAM-TS8, a novel metalloproteinase of the ADAM-TS family located on
mouse chromosome 9 and human chromosome 11."
RL Genomics 62:312-315(1999).
CC -1- FUNCTION: HAS ANTI-ANGIOGENIC PROPERTIES (BY SIMILARITY).
CC -1- CORPACOR: Binds 1 zinc ion per subunit (BY SIMILARITY).
CC -1- SUCCELLULAR LOCATION: Secreted. Associated with the extracellular
matrix (BY SIMILARITY).
CC -1- TISSUE SPECIFICITY: EXPRESSED SPECIFICALLY IN ADULT LUNG AND HEART
AND LOW EXPRESSION DURING MOUSE DEVELOPMENT.
CC -1- DOMAIN: THE SPACER DOMAIN AND THE TSP TYPE-1 DOMAINS ARE IMPORTANT
FOR A TIGHT INTERACTION WITH THE EXTRACELLULAR MATRIX.
CC -1- PPM: THE PRECURSOR IS CLEAVED BY A FURIN ENDOPEPTIDASE (BY
SIMILARITY).
CC -1- SIMILARITY: Belongs to peptidase family M12B.
CC -1- SIMILARITY: Contains 2 disintegrin-like domain.
CC -1- SIMILARITY: Contains 2 TSP type-1 domains.
CC -----
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CC -----
DR EMBL: AF175282; AAF25805.1;
DR HSSP: P34179; 11AG.
DR MEROPS: M12.226;
DR MGD: MGI:153468; Adamts8.
DR InterPro: IPR001762; Disintegrin.
DR InterPro: IPR001590; Reprolysin.
DR InterPro: IPR000884; TSP1.
DR InterPro: IPR006025; Zn_Mpeptidase.

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DR Pfam: PF01421; Reprolysin; 1.
DR Pfam: PF00090; TSP-1; 2.
DR SMART: SM00209; TSP1; 2.
DR PROSITE: PS50215; ADAM_MOUSE; 1.
DR PROSITE: PS00427; DISINTEGRIN_1; FALSE_NEG.
DR PROSITE: PS50214; DISINTEGRIN_2; FALSE_NEG.
DR PROSITE: PS50092; TSP1; 2.
DR PROSITE: PS00142; ZINC_PROTEASE; 1.
DR Hydrolase: Metalloproteinase; Zinc; Signal; Glycoprotein; Zymogen;
KW Repeat; Extracellular matrix; Heparin-binding.
FT SIGNAL 1 28
FT PROPEP 29 228
FT CHAIN 229 905
FT FT 229 905
FT DOMAIN 229 452
FT DOMAIN 453 541
FT DOMAIN 542 597
FT DOMAIN 599 705
FT DOMAIN 706 847
FT DOMAIN 848 904
FT METAL 378 378
FT ACT_SITE 379 379
FT METAL 382 382
FT METAL 388 388
FT CARBOHYD 415 415
FT CARBOHYD 480 480
FT CARBOHYD 506 506
FT CARBOHYD 615 615
SQ SEQUENCE 905 AA; 98879 MW; 124DA132B33ACAB CRC64;

Query Match
Best Local Similarity 3.7%; Score 9; DB 1; Length 905;
Matches 9; Conservative 100.0%; Pred. No. 1.9;
Mismatches 0; Indels 0; Gaps 0;

Db 17 LLLLLLQL 25
13 LLLLLLQL 21

RESULT 6
CALL_HUMAN STANDARD; PRT; 1464 AA.
ID P02452; Q14037; Q15176;
AC 21-JUL-1986 (Rel. 01, Created)
DE 21-MAR-1986 (Rel. 10, Last sequence update)
DE 28-FEB-2003 (Rel. 41, Last annotation update)
DE Collagen alpha 1(I) chain precursor.
GN COL1A1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
ON NCBI_TaxID=9606;
RN [1]
RX MEDLINE=89025644; PubMed=3178743;
RA Tromp G., Kuivaniemi H., Stacey A., Shikata H., Baldwin C.T.,
RA Jaenisch R., Prockup D.J.;
RT "Structure of a full-length cDNA clone for the prepro alpha 1(I)
chain of human type I procollagen."
RL Biochem. J. 253:919-922(1988).
RN [2]
RX MEDLINE=44270697; PubMed=6462220;
RA Chu M.-L., de Wet W.J., Bernard M.P., Ding J.-F., Morabito M.,
RA Myers J., Williams C., Ramirez F.;
RT "Human pro alpha 1(I) collagen gene structure reveals evolutionary
conservation of a pattern of introns and exons."
RL Nature 310:337-340(1984).
RN [3]
RX SEQUENCE OF 162-301.
RX TISSUE-Skin;
RX MEDLINE=71038625; PubMed=5529814;
RX Click E.M., Bornstein P.;
RT "Isolation and characterization of the cyanogen bromide peptides from

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RT the alpha 1 and alpha 2 chains of human skin collagen.";
 RL Biochemistry 9:4699-4706(1970).
 [4]
 RP SEQUENCE OF 263-268.
 RC TISSUE-Skin;
 RX MEDLINE-71001508; PubMed-4319110;
 RA Morgan P.H., Jacobs H.G., Segrest J.P., Cunningham L.W.;
 RT "A comparative study of glycopeptides derived from selected
 RT vertebrate collagens. A possible role of the carbohydrate in fibril
 RT formation.";
 RL J. Biol. Chem. 245:5042-5048(1970).
 [5]
 RP SEQUENCE OF 425-1464 FROM N.A.
 RX MEDLINE-84080385; PubMed-6689127;
 RA Bernard M.P., Chu M.-L., Myers J.C., Ramirez F., Elkenberry E.F.,
 RA Prockop D.J.;
 RT "Nucleotide sequences of complementary deoxyribonucleic acids for the
 RT pro alpha 1 chain of human type I procollagen. Statistical evaluation
 RT of structures that are conserved during evolution.";
 RL Biochemistry 22:5213-5223(1983).
 [6]
 RP SEQUENCE OF 1229-1454 FROM N.A.
 RC TISSUE-Bone;
 RX MEDLINE-88124208; PubMed-3340531;
 RA MacKee J.K., Raassina M., Virta A., Vuorio E.;
 RT "Human pro alpha 1(I) collagen: cDNA sequence for the C-propeptide
 RT domain.";
 RL Nucleic Acids Res. 16:349-349(1988).
 [7]
 RP SEQUENCE OF 1-34 FROM N.A.
 RX MEDLINE-88097389; PubMed-3480516;
 RA Bornstein P., McKay J., Morishima J.K., Devarajulu S., Gellinas R.E.;
 RT "Regulatory elements in the first intron contribute to
 RT transcriptional control of the human alpha 1(I) collagen gene.";
 RL Proc. Natl. Acad. Sci. U.S.A. 84:8869-8873(1987).
 [8]
 RP SEQUENCE OF 1-34 FROM N.A.
 RX MEDLINE-85130970; PubMed-2857713;
 RA Chu M.-L., de Wet W.J., Bernard M.P., Ramirez F.;
 RT "Fine structural analysis of the human pro-alpha 1 (I) collagen gene.
 RT Promoter structure, Alu repeats, and polymorphic transcripts.";
 RL J. Biol. Chem. 260:2315-2320(1985).
 [9]
 RP SEQUENCE OF 1-44 FROM N.A.
 RX MEDLINE-88033098; PubMed-2822714;
 RA Rossouw C.M.S., Vergeer W.P., du Plooy S.J., Bernard M.P., Ramirez F.,
 RA de Wet W.J.;
 RT "DNA sequences in the first intron of the human pro-alpha 1(I)
 RT collagen gene enhance transcription.";
 RL J. Biol. Chem. 262:15151-15157(1987).
 [10]
 RP REVIEW ON VARIANTS.
 RX MEDLINE-91184577; PubMed-2010058;
 RA Kuivanen H., Tromp G., Prockop D.J.;
 RT "Mutations in collagen genes: causes of rare and some common diseases
 RT in humans.";
 RL FASEB J. 5:2052-2060(1991).
 [11]
 RP REVIEW ON VARIANTS.
 RX MEDLINE-97255959; PubMed-9101290;
 RA Kuivanen H., Tromp G., Prockop D.J.;
 RT "Mutations in fibrillar collagens (types I, II, III, and XI), fibril-
 RT associated collagen (type IX), and network-forming collagen (type X)
 RT cause a spectrum of diseases of bone, cartilage, and blood vessels.";
 RL Hum. Mutat. 9:300-315(1997).
 [12]
 RP REVIEW ON VARIANTS.
 RX MEDLINE-91374476; PubMed-1895312;
 RA Byers P.H., Wallis G.A., Willing M.C.;
 RT "Osteogenesis imperfecta: translation of mutation to phenotype.";
 RL J. Med. Genet. 28:433-442(1991).
 [13]
 RP REVIEW ON VARIANTS.
 RX MEDLINE-97169389; PubMed-9016532;
 RA Dalgleish R.;
 RT "The human type I collagen mutation database.";
 RL Nucleic Acids Res. 25:181-187(1997).
 [14]
 RP VARIANT OF-II CYS-1166.
 RX MEDLINE-86287390; PubMed-3016737;
 RA Cohn D.H., Byers P.H., Steinmann B., Gellinas R.E.;
 RT "Lethal osteogenesis imperfecta resulting from a single nucleotide
 RT change in one human pro alpha 1(I) collagen allele.";
 RL Proc. Natl. Acad. Sci. U.S.A. 83:6045-6047(1986).
 [15]
 RP VARIANT OF-II ARG-569.
 RX MEDLINE-87222295; PubMed-3108247;
 RA Bateman J.F., Chan D., Walkers I.D., Rogers J.G., Cole W.G.;
 RT "Lethal perinatal osteogenesis imperfecta due to the substitution of
 RT arginine for glycine at residue 391 of the alpha 1(I) chain of type I
 RT collagen.";
 RL J. Biol. Chem. 262:7021-7027(1987).
 [16]
 RP VARIANT OF-II CYS-926.
 RX MEDLINE-88033031; PubMed-3667599;
 RA Vogel B.E., Minor R.R., Freund M., Prockop D.J.;
 RT "A point mutation in a type I procollagen gene converts glycine 748
 RT of the alpha 1 chain to cysteine and destabilizes the triple helix in
 RT a lethal variant of osteogenesis imperfecta.";
 RL J. Biol. Chem. 262:14737-14744(1987).
 [17]
 RP VARIANT OF-II ARG-842.
 RX MEDLINE-88298828; PubMed-3403550;
 RA Bateman J.F., Lamande S.R., Dahl H.H., Chan D., Cole W.G.;
 RT "Substitution of arginine for glycine 664 in the collagen alpha 1(I)
 RT chain in lethal perinatal osteogenesis imperfecta. Demonstration of
 RT the peptide defect by in vitro expression of the mutant cDNA.";
 RL J. Biol. Chem. 263:11627-11630(1988).
 [18]
 RP VARIANT OF CYS-1195.
 RX MEDLINE-89218628; PubMed-3244312;
 RA Labhard M.E., Wirtz M.K., Pope F.M., Nicholls A.C., Hollister D.W.;
 RT "A cysteine for glycine substitution at position 1017 in an alpha
 RT 1(I) chain of type I collagen in a patient with mild dominantly
 RT inherited osteogenesis imperfecta.";
 RL Mol. Biol. Med. 5:197-207(1988).
 [19]
 RP VARIANT OF-II VAL-434.
 RX MEDLINE-89255493; PubMed-2470760;
 RA Patterson E., Smiley E., Bonadio J.;
 RT "RNA sequence analysis of a perinatal lethal osteogenesis imperfecta
 RT mutation.";
 RL J. Biol. Chem. 264:10083-10087(1989).
 [20]
 RP VARIANT OF-IV SER-1010.
 RX MEDLINE-89308591; PubMed-2745420;
 RA Martin J.C., Grange D.K., Gottesman G.S., Lewis M.B., Koepf D.A.;
 RT "Osteogenesis imperfecta type IV. Detection of a point mutation in
 RT one alpha 1(I) collagen allele (COL1A1) by RNA/RNA hybrid analysis.";
 RL J. Biol. Chem. 264:11893-11900(1989).
 [21]
 RP VARIANTS OF-II ALA-1106; VAL-1151; ARG-1154 AND VAL-1184.
 RX MEDLINE-89380165; PubMed-277764;
 RA Lamande S.R., Dahl H.-H.M., Cole W.G., Bateman J.F.;
 RT "Characterization of point mutations in the collagen COL1A1 and
 RT COL1A2 genes causing lethal perinatal osteogenesis imperfecta.";
 RL J. Biol. Chem. 264:15809-15812(1989).
 [22]
 RP VARIANT OF SER-1022.
 RX MEDLINE-90062068; PubMed-2511192;
 RA Pack M., Constantino C.D., Kalia K., Nielsen K.B., Prockop D.J.;
 RT "Substitution of serine for alpha 1(I)-glycine 844 in a severe
 RT variant of osteogenesis imperfecta minimally destabilizes the triple
 RT helix of type I procollagen. The effects of glycine substitutions on
 RT thermal stability are either position of amino acid specific.";
 RL J. Biol. Chem. 264:19694-19699(1989).

RN [23]
 RP VARIANT OI-II CYS-1082.
 RX MEDLINE=89109573; PubMed=2913053;
 RA Constantinou C.D., Nielsen K.B., Prockop D.J.;
 RT "A lethal variant of osteogenesis imperfecta has a single base
 RT mutation that substitutes cysteine for glycine 904 of the alpha 1(I)
 RT chain of type I procollagen. The asymptomatic mother has an
 RT unidentified mutation producing an overmodified and unstable type I
 RT procollagen.";
 RL J. Clin. Invest. 83:574-584(1989).
 RN [24]
 RP VARIANTS OI CYS-272; CYS-704 AND CYS-896.
 RX MEDLINE=9009313; PubMed=2794057;
 RA Starman B.J., Eyre D., Charbonneau H., Harrylock M., Weis M.A.,
 RA Weiss L., Graham J.M., Byers P.H.;
 RT "Osteogenesis imperfecta. The position of substitution for glycine by
 RT cysteine in the triple helical domain of the pro alpha 1(I) chains of
 RT type I collagen determines the clinical phenotype.";
 RL J. Clin. Invest. 84:1206-1214(1989).
 RN [25]
 RP VARIANT OI-II CYS-422.

Query Match 3.7%; Score 9; DB 1; Length 1464;
 Best Local Similarity 100.0%; Pred. No. 2.9;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 63 PGDGSFGA 71
 Db 1024 PGDGSFGA 1032

RESULT 7
 LSHB_HUMAN
 ID LSHB_HUMAN STANDARD; PRT; 141 AA.
 AC P01229;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 01-NOV-1995 (Rel. 32, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Lutropin beta chain precursor (Luteinizing hormone beta subunit) (LSH-
 DE beta) (LSH-B) (LH-B).
 GN LHB.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=84093590; PubMed=6690982;
 RA Talmadge R., Vamvakopoulos N.C., Fiddes J.C.;
 RT "Evolution of the genes for the beta subunits of human chorionic
 RT gonadotropin and luteinizing hormone.";
 RL Nature 307:37-40(1984).
 RN [2]
 RP SEQUENCE OF 21-141.
 RX MEDLINE=76062547; PubMed=1191677;
 RA Saitam M.R., Li C.H.;
 RT "Human pituitary lutropin. Isolation, properties, and the complete
 RT amino acid sequence of the beta-subunit.";
 RL Biochim. Biophys. Acta 412:70-81(1975).
 RN [3]
 RP PRELIMINARY SEQUENCE OF 21-141.
 RX MEDLINE=73090987; PubMed=4685398;
 RA Shome B., Parlow A.F.;
 RT "The primary structure of the hormone-specific, beta subunit of human
 RT pituitary luteinizing hormone (hLH).";
 RL J. Clin. Endocrinol. Metab. 36:618-621(1973).
 RN [4]
 RP PRELIMINARY PARTIAL SEQUENCE.
 RX MEDLINE=73221227; PubMed=4719207;
 RA Closset J., Heenen G., Leguin R.M.;
 RT "Human luteinizing hormone. The amino acid sequence of the
 RT subunit.";
 RL FEBS Lett. 29:97-100(1973).

RN [5]
 RP STRUCTURE OF CARBOHYDRATE.
 RX MEDLINE=91122088; PubMed=1991473;
 RA Weishaar G., Hiyma J., Renwick A.G.C., Nantz M.;
 RT "NMR investigations of the N-linked oligosaccharides at individual
 RT glycosylation sites of human lutropin.";
 RL Eur. J. Biochem. 195:257-268(1991).
 RN [6]
 RP STRUCTURE BY NMR OF 58-77.
 RX MEDLINE=92357029; PubMed=1495492;
 RA Keutmann H.T., Hua O.-X., Weiss M.A.;
 RT "Structure of a receptor-binding fragment from human luteinizing
 RT hormone beta-subunit determined by [1H]- and [15N]nuclear magnetic
 RT resonance spectroscopy.";
 RL Mol. Endocrinol. 6:904-913(1992).
 RN [7]
 RP VARIANT HYPOGONADISM ARG-74.
 RX MEDLINE=92085985; PubMed=1727547;
 RA Weiss J., Axelrod L., Whitcomb R.W., Harris P.E., Crowley W.F.,
 RA Jameson J.L.;
 RT "Hypogonadism caused by a single amino acid substitution in the beta
 RT subunit of luteinizing hormone.";
 RL New Engl. J. Med. 326:179-183(1992).
 RN [8]
 RP VARIANT SER-122.
 RX PubMed=9457942;
 RA Liao W.X., Roy A.C., Chan C., Arulkumaran S., Ratnam S.S.;
 RT "A new molecular variant of luteinizing hormone associated with female
 RT infertility.";
 RL Fertil. Steril. 69:102-106(1998).
 RN [9]
 RP VARIANTS ARG-28 AND THR-35.
 RX PubMed=9886510;
 RA Takahashi K., Kurioka H., Ozaki T., Kanasaki H., Kohsaka M.,
 RA Miyazaki K., Karino K.;
 RT "Increased prevalence of luteinizing hormone beta-subunit variant in
 RT Japanese infertile patients.";
 RL Hum. Reprod. 13:3338-3344(1998).
 RN [10]
 RP VARIANT THR-18.
 RX PubMed=11870227;
 RA Jiang M., Lamminen T., Pakarinen P., Hellman J., Manna P.,
 RA Herrera R.J., Huhnameni I.;
 RT "A novel Ala(-3)Thr mutation in the signal peptide of human
 RT luteinizing hormone beta-subunit: potentiation of the inositol
 RT phosphate signalling pathway and attenuation of the adenylate cyclase
 RT pathway by recombinant variant hormone.";
 RL Mol. Hum. Reprod. 8:201-212(2002).
 RN [11]
 RP FUNCTION: PROMOTES SPERMATOGENESIS AND OVULATION BY STIMULATING
 CC THE TESTES AND OVARIES TO SYNTHESIZE STEROIDS.
 CC SUBUNIT: HETERODIMER OF A COMMON ALPHA CHAIN AND A UNIQUE BETA
 CC LUTROPIN, FOLLITROPIN AND GONADOTROPIN.
 CC TISSUE SPECIFICITY: PITUITARY.
 CC DISEASE: Defects in LHB are a cause of hypogonadism [MIM:152780]
 CC which is characterized by infertility and pseudohypoparathyroidism.
 CC SIMILARITY: BELONGS TO THE GLYCOPROTEIN HORMONES BETA CHAIN
 CC FAMILY.
 CC
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 CC
 CC EMBL: X00264; CA25067.1;
 CC EMBL: S71273; AAD14960.1; ALT_SEQ.
 CC PIR: I37994; UTHUB.
 CC HSSP: P01233; 1XUL.
 CC GlycoSuiteDB: P01229;
 CC Genew: HGNC:6584; LHB.

DR MTM; 152780; -
 DR GO; GO:0005625; C:soluble fraction; TAS.
 DR GO; GO:0007267; P:cell-cell signaling; TAS.
 DR GO; GO:0008584; P:male gonad development; TAS.
 DR GO; GO:0007165; P:signal transduction; TAS.
 DR InterPro; IPR006208; Cys_knot.
 DR InterPro; IPR002400; GF_gycknot.
 DR InterPro; IPR001545; Gly_hormoneb.
 DR Pfam; PF00007; Cys_knot; 1.
 DR PRINTS; PRO0438; GRCYSKNOT.
 DR SMART; SM00068; GHb; 1.
 DR PROSITE; PS00261; GLYCO_HORMONE_BETA_1; 1.
 DR PROSITE; PS00689; GLYCO_HORMONE_BETA_2; 1.
 DR Hormone; Glycoprotein; Signal; Pseudohemaphroditism;
 KM Disease mutation; Polymorphism.
 FT SIGNAL 1 20
 FT CHAIN 21 141 LUTROPIN BETA CHAIN.
 FT DISULFID 29 77 BY SIMILARITY.
 FT DISULFID 43 92 BY SIMILARITY.
 FT DISULFID 46 130 BY SIMILARITY.
 FT DISULFID 54 108 BY SIMILARITY.
 FT DISULFID 58 110 BY SIMILARITY.
 FT DISULFID 113 120 BY SIMILARITY.
 FT CARBOHYD 50 50 N-LINKED (GLCNAC...).
 FT VARIANT 18 18 /FTID=CAR_000045.
 FT VARIANT 18 18 A -> T (more effective in stimulating IP3
 but not CAMP production).
 FT VARIANT 28 28 /FTID=VAR_015672.
 FT VARIANT 35 35 W -> R (in dbSNP:1800447).
 FT VARIANT 74 74 /FTID=VAR_014589.
 FT VARIANT 74 74 I -> T (in dbSNP:1800448).
 FT VARIANT 74 74 /FTID=VAR_014590.
 FT VARIANT 74 74 Q -> R (in hypogonadism; lack of
 receptor-binding).
 FT VARIANT 122 122 /FTID=VAR_003189.
 FT VARIANT 122 122 G -> S (may be implicated in female
 infertility).
 FT CONFLICT 39 39 /FTID=VAR_015673.
 FT CONFLICT 76 76 E -> Q (IN REF. 2).
 FT CONFLICT 132 135 MISSING (IN REF. 2).
 FT CONFLICT 132 135 HPOL -> POH (IN REF. 2).
 FT SEQUENCE 141 AA; 15345 MW; E411766253113F7C CMC64;
 SQ SEQUENCE 141 AA; 15345 MW; E411766253113F7C CMC64;
 Query Match 3.3%; Score 8; DB 1; Length 141;
 Best Local Similarity 100.0%; Pred. No. 3.3;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 15 GLLLLLLL 22
 Db 6 GLLLLLLL 13
 RESULT 8
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 ID P01233; Q13991; Q14000; Q8WXL2; Q8WXL3; Q8WXL4;
 AC P01233; Q13991; Q14000; Q8WXL2; Q8WXL3; Q8WXL4;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 21-JUL-1986 (Rel. 01, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Choriongonadotropin beta chain precursor (Chorionic gonadotropin beta
 subunit) (CG-beta).
 GN CGB.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 CX NCB1_TaxID=9606;
 RN [1]
 RP MEDLINE=81012134; PubMed=6774259;
 RA Fiddes J.C., Goodman H.M.;
 RT "The cDNA for the beta-subunit of human chorionic gonadotropin
 suggests evolution of a gene by readthrough into the 3'-untranslated
 region."

RL Nature 286:684-687(1980).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=84093590; PubMed=6690982;
 RA Talmadge K., Vamvakopoulos N.C., Fiddes J.C.;
 RT "Evolution of the genes for the beta subunits of human chorionic
 gonadotropin and interlizing hormone.";
 RL Nature 307:37-40(1984).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=84008141; PubMed=6194155;
 RA Policastro P., Ovitt C.E., Hoshina M., Fukuoka H., Boothby M.R.,
 RA Boime I.;
 RT "The beta subunit of human chorionic gonadotropin is encoded by
 multiple genes.";
 RL J. Biol. Chem. 258:11492-11499(1983).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC TISSUE-Placenta;
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usgel T.B., Toshilyuki S., Carninci P., Prange C.,
 RA Rana S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaby S.J.,
 RA Bosak S.A., McGowan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hally S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahey J., Heltón E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butlerfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,
 RA Schnerch A., Schein J.E., Jones S.J.W., Matra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [5]
 RP SEQUENCE OF 6-164 FROM N.A., AND VARIANTS ALA-18; ARG-22; MET-24;
 RP TRP-28; HIS-30; ALA-137 AND CYS-147.
 RA Maston G.A., Ruvolo M.;
 RT "Chorionic gonadotropin has a recent origin in primates and an
 evolutionary history of selection.";
 RL Submitted (JUL-2001) to the EMBL/Genbank/DBJ databases.
 RN [6]
 RP SEQUENCE OF 1-20.
 RX MEDLINE=81117268; PubMed=7462224;
 RA Birken S., Fetherston J., Canfield R.E., Boime I.;
 RT "The amino acid sequences of the prepeptides contained in the alpha
 and beta subunits of human choriongonadotropin.";
 RL J. Biol. Chem. 256:1816-1823(1981).
 RN [7]
 RP SEQUENCE OF 21-165.
 RX MEDLINE=75211304; PubMed=1150658;
 RA Morgan F.J., Birken S., Canfield R.E.;
 RT "The amino acid sequence of human chorionic gonadotropin. The alpha
 subunit and beta subunit.";
 RL J. Biol. Chem. 250:5247-5258(1975).
 RN [8]
 RP PRELIMINARY SEQUENCE OF 21-165.
 RX MEDLINE=74011267; PubMed=4795659;
 RA Carlsen R.B., Bahl O.P., Swaminathan N.;
 RT "Human chorionic gonadotropin. Linear amino acid sequence of the beta
 subunit.";
 RL J. Biol. Chem. 248:6810-6827(1973).
 RN [9]
 RP SEQUENCE OF 1-5 FROM N.A.
 RX MEDLINE=86195987; PubMed=2422163;
 RA Policastro P.F., Daniels-McQueen S., Carle G., Boime I.;
 RT "A map of the hcg beta-LH gene cluster."

```

DR PDB: 1HCN, 30-SEP-94.
DR PDB: 1HRP, 01-NOV-94.
DR PDB: 1QEW, 26-APR-90.
DR PDB: 1XUL, 15-MAY-97.
DR GlycoSuiteDB: P01233.
DR Genew: HGNC:1886; CGB.
DR Genew: HGNC:16451; CGB7.
DR Genew: HGNC:16452; CGB5.
DR MTM: 118860.
DR GO: 0005625; C:soluble fraction; TAS.
DR GO: 0005179; F: hormone activity; TAS.
DR GO: 0006915; P: apoptosis; TAS.
DR GO: 0007267; P: cell-cell signaling; TAS.
DR GO: 0007292; P: oogenesis; TAS.
DR GO: 0007165; P: signal transduction; TAS.
DR InterPro: IPR006208; Cys_knot.
DR InterPro: IPR001545; Gly_hormoneB.
DR Pfam: PF00007; Cys_knot; 1.
DR PRINTS: PR00438; GFCYSKNOT.
DR SMART: SM00068; GHF_1.
DR PROSITE: PS00261; GLYCO_HORMONE_BETA_1; 1.
DR PROSITE: PS00689; GLYCO_HORMONE_BETA_2; 1.
KW Hormone; Glycoprotein; signal; Pharmaceutical; 3d-structure;
FT POLYMORPHISM.
FT STNAL 1 20
FT CHAIN 21 165
FT DISULFID 29 77
FT DISULFID 43 92
FT DISULFID 46 130
FT DISULFID 54 108
FT DISULFID 58 110
FT DISULFID 113 120
FT CARBOHYD 33 33
N-LINKED (GLCNAC. . .)
/FTid-CAR_000042.

Query Match
Best Local Similarity 3.3%; Score 8; DB 1; Length 165;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

Qy 15 GLLLLLL 22
Db 6 GLLLLLL 13

RESULT 9
RS3_BUCAP STANDARD; PRT; 233 AA.
ID RS3_BUCAP
AC O8K956;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DE 28-FEB-2003 (Rel. 41, Last annotation update)
DE 30S ribosomal protein S3.
DE RPS3 OR B0SG499.
OS Buchnera aphidicola (subsp. Schizaphis graminum).
OC Bacteria; Proteobacteria; Gammaproteobacteria; Enterobacteriales;
OC Enterobacteriaceae; Buchnera.
OC NCBI_TaxID=98794;
RN (1)
RP SEQUENCE FROM N.A.
RX MEDLINE=22084549; PubMed=12089438;
RA Tamás I., Klasson L., Canbaeck B., Naeslund A.K., Eriksson A.-S.,
RA Wernegreen J.J., Sandstroem J.P., Moran N.A., Andersson S.G.E.;
RT "50 million years of genomic stasis in endosymbiotic bacteria.";
RL Science 296:2376-2379(2002).
CC -1- FUNCTION: Binds the lower part of the 30S subunit head. Binds mRNA
CC in the 70S ribosome, positioning it for translation (By
CC similarity).
CC -1- SUBUNIT: Part of the 30S ribosomal subunit. Forms a tight complex
CC with proteins S10 and S14 (By similarity).
CC -1- SIMILARITY: BELONGS TO THE S3P FAMILY OF RIBOSOMAL PROTEINS.
CC -1- SIMILARITY: Contains 1 KH type-2 domain.
CC

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CC EMBL; AE014125; AAM68042.1; -
CC HAMAP; MF_01309; -; 1.
DR InterPro: IPR004087; KH_dom.
DR InterPro: IPR004044; KH_type_2.
DR InterPro: IPR001351; Ribosomal_S3.
DR InterPro: IPR005704; S3_bact.
DR Pfam; PF00013; KH; 1.
DR Pfam; PF00189; Ribosomal_S3_C; 1.
DR Pfam; PF00417; Ribosomal_S3_N; 1.
DR SMART; SM00332; KH; 1.
DR TIGRfam; TIGR01009; rpsc_bact; 1.
DR PROSITE; PS50823; KH_type_2; 1.
DR PROSITE; PS00548; RIBOSOMAL_S3; 1.
KW Ribosomal protein; RNA-binding; rRNA-binding; Complete proteome.
SQ DOMAIN 39 107 KH TYPE-2.
SEQUENCE 233 AA: 26530 MW: 60C476BEA7081BA5 CRC64;

Query Match 3.3%; Score 8; DB 1; Length 233;
Best Local Similarity 100.0%; Pred. No. 5.1;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 232 SVSRITTE 239
DB 51 SVSRITTE 58

RESULT 10
MOG_MOUSE ID MOG_MOUSE STANDARD: PRT: 246 AA.
AC Q61885; F70364; Q62003;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Myelin-oligodendrocyte glycoprotein precursor.
GN MOG.
OS Mus musculus (Mouse).
OC Eumetazoa; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN-129;
RX MEDLINE=95130110; PubMed=7829100;
RA Daubas P., Pham-Dinh D., Dautigny A.;
RT "Structure and polymorphism of the mouse myelin/oligodendrocyte glycoprotein gene";
RL Genomics 23:36-41(1994).
RN [2]
RP SEQUENCE FROM N.A.
RA Gardiner M.V., Matthieu J.M.;
RT "Murine and human MOG are highly conserved: cDNA analysis";
RL Trans. Am. Soc. Neurochem. 24:234-234(1993).
RN [3]
RP SEQUENCE OF 29-246 FROM N.A.
RC STRAIN-BALB/c; TISSUE=Brain;
RX MEDLINE=93376728; PubMed=8367453;
RA Pham-Dinh D., Mattei M.-G., Nussbaum J.-L., Rousset G.,
RA Pontarotti P., Roedel N., Mather I.H., Artzt K., Lindahl K.F.,
RA Dautigny A.;
RT "Myelin/oligodendrocyte glycoprotein is a member of a subset of the RT immunoglobulin superfamily encoded within the major histocompatibility complex";
RL Proc. Natl. Acad. Sci. U.S.A. 90:7990-7994(1993).
RN [4]
RP SEQUENCE OF 29-54.

RC STRAIN-BALB/c; TISSUE=Brain;
RX MEDLINE=92218912; PubMed=1373175;
RA Amyguez P., Gardiner M.V., Zanetta J.-P., Matthieu J.-M.;
RT "Purification and partial structural and functional characterization of mouse myelin/oligodendrocyte glycoprotein";
RL J. Neurochem. 58:1676-1682(1992).
CC -1 FUNCTION: MINOR COMPONENT OF THE MYELIN SHEATH. MAY BE INVOLVED IN COMPLETION AND/OR MAINTENANCE OF THE MYELIN SHEATH AND IN CELL-CELL COMMUNICATION.
CC -1 SUBUNIT: MAY FORM HOMODIMERS.
CC -1 SUBCELLULAR LOCATION: Integral membrane protein.
CC -1 TISSUE SPECIFICITY: FOUND EXCLUSIVELY IN THE CNS, WHERE IT IS LOCALIZED ON THE SURFACE OF MYELIN AND OLIGODENDROCYTE CYTOPLASMIC MEMBRANES.
CC -1 DISEASE: REDUCED CONCENTRATIONS OF MOG ARE OBSERVED IN JIMPY AND QUACKING DYSMYELINATING MUTANT MICE.
CC -1 SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. BTN/MOG SUPERFAMILY.
CC -1 SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
CC -1 CAUTION: DO NOT CONFUSE MYELIN-OLIGODENDROCYTE GLYCOPROTEIN (MOG) WITH OLIGODENDROCYTE-MYELIN GLYCOPROTEIN (OMG).
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CC EMBL; L29503; AAC42023.1; -
CC EMBL; L29498; AAC42023.1; JOINED.
CC EMBL; L29500; AAC42023.1; JOINED.
CC EMBL; L29501; AAC42023.1; JOINED.
CC EMBL; L29499; AAC42023.1; JOINED.
CC EMBL; L29502; AAC42023.1; JOINED.
CC EMBL; U64572; AAB08096.1; -
CC EMBL; L20942; AAA03180.1; -
CC PIR; A55717; A55717.
CC MGD; MGI:97435; Mog.
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003006; Ig_MHC.
DR InterPro: IPR003596; Ig_V.
DR Pfam; PF00047; Ig; 1.
DR SMART; SM00406; IgV.
DR PROSITE; PS50835; IG_LIKE; 1.
KW Immunoglobulin domain; Glycoprotein; Myelin; Transmembrane; Signal.
FT SIGNAL 1 28
FT CHAIN 1 246
FT DOMAIN 29 156 MYELIN-OLIGODENDROCYTE GLYCOPROTEIN.
FT TRANSMEM 157 177 EXTRACELLULAR (POTENTIAL).
FT DOMAIN 178 209 POTENTIAL.
FT TRANSMEM 210 230 CYTOPLASMIC (POTENTIAL).
FT DOMAIN 231 246 POTENTIAL.
FT DOMAIN 31 144 EXTRACELLULAR (POTENTIAL).
FT DISULFID 52 126 IG-LIKE V-TYPE.
FT CARBOHYD 59 126 POTENTIAL.
FT CONFLICT 21 21 N-LINKED (GLCNAC...) (POTENTIAL).
FT CONFLICT 32 32 L -> I (IN REF. 2).
FT CONFLICT 95 95 G -> E (IN REF. 3).
FT CONFLICT 169 169 P -> S (IN REF. 2).
SQ SEQUENCE 246 AA: 28271 MW: 1F1A8A4A0D5CFB89 CRC64;

Query Match 3.3%; Score 8; DB 1; Length 246;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 17 LLLLLLQL 24
DB 16 LLLLLLQL 23

RESULT 11

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ID      KP7F_XENNA          STANDARD;          PRT;       291 AA.
AC      P35983;
AD
DT      01-JUN-1994 (Rel. 29, Created)
DT      01-JUN-1994 (Rel. 29, Last sequence update)
DT      28-FEB-2003 (Rel. 41, Last annotation update)
DE      Homeobox protein XHOX-7.1' (Fragment).
GN      HOX-7.1'
OS      Xenopus laevis (African clawed frog).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Amphibia; Batrachia; Anura; Mesobatrachia; Pipridae; Plapidae;
OC      Xenopodinae; Xenopus.
OX      NCBI_Taxid=8335;
[1]
SEQUENCE FROM N.A.
RP
RN
RX      MEDLINE=91347929; PubMed=1679007;
RA      Su M.-W., Suzuki H.R., Solursh M., Ramirez F.;
RT      Progressively restricted expression of a new homeobox-containing
RL      gene during Xenopus laevis embryogenesis.";
RL      Development 111:1179-1187(1991).
CC      -1 SUBCELLULAR LOCATION: Nuclear (Probable).
CC      -1 SIMILARITY: BELONGS TO THE MSH HOMEBOX FAMILY.
-----
CC      This SWISS-PROT entry is copyright. It is produced through a collaboration
CC      between the Swiss Institute of Bioinformatics and the EMBL Outstation
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CC      or send an email to license@isb-sib.ch).
-----
DR      EMBL, X58772; CAA1573.1; -.
DR      PIR, B60131; B60131.
DR      HSSP, P22808; INK3.
DR      InterPro, IPR001356; Homeobox.
DR      InterPro, IPR000047; HTH_Lambdaressr.
DR      Pfam, PR00046; homeobox; 1.
DR      PRINTS, PRO0024; HOMEBOX.
DR      PRINTS, PRO0031; HTHEREPRESSR.
DR      ProDom, PDO00010; Homeobox; 1.
DR      SMART, SMO0389; HOX; 1.
DR      PROSITE, PS00027; HOMEBOX_1; 1.
DR      PROSITE, PS00721; HOMEBOX_2; 1.
FT      Homeobox; DNA-binding; Developmental protein; Nuclear protein.
FT      NON_TER
FT      Dna_Bind 160 219 HOMEBOX.
SQ      SEQUENCE 291 AA; 32293 MW; 9D3D45FBEEFCB50 CRC64;
Query Match
Best Local Similarity 3.3%; Score 8; DB 1; Length 291;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY      16 LLLILLIQ 23
DY      |||||
DB      LLLILLIQ 13
RESULT 13
WRN6_HUMAN
ID      WRN6_HUMAN          STANDARD;          PRT;       365 AA.
AC      Q9Y6F9; Q9HJG6; Q9H238;
AD      16-OCT-2001 (Rel. 40, Created)
AD      16-OCT-2001 (Rel. 40, Last sequence update)
DT      15-SEP-2003 (Rel. 42, Last annotation update)
DE      Wnt-6 protein precursor.
GN      WNT6.
OS      Homo sapiens (Human).
OC      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC      Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
OX      NCBI_Taxid=9606;
[1]
SEQUENCE FROM N.A.
RP

```

RA Culbert A.A., Reith A.D., Barnes M.R.;
 RT "Molecular cloning and characterization of six novel human WNT
 RL genes.";
 RN Submitted (Aug-2000) to the EMBL/GenBank/DBJ databases.
 RP SEQUENCE FROM N.A.
 RX MEDLINE-21248387; PubMed-11350055;
 RA Kirikoshi H., Sekihara H., Katoh M.;
 RT "WNT10A and WNT6, clustered in human chromosome 2q35 region with
 RL head-to-tail manner, are strongly co-expressed in SK480 cells.";
 RL Biochem. Biophys. Res. Commun. 283:798-805(2001).
 RP SEQUENCE FROM N.A.
 RX TISSUE-Placenta;
 RC MEDLINE-22388257; PubMed-12477932;
 RA Krausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shennan C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buétow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin J.A., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant P.L., Scheetz T.E.,
 RA Brownstein M.J., Uslan T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mulhaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Morley K.C., Hale S., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahy J., Helton E., Kettelman M., Madan A., Rodrigues S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.W.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smillius D.E.,
 RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length
 RT human and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN SEQUENCE OF 28-365 FROM N.A.
 RA Rump A., Hayes C., Brown S.D.M., Rosenthal A.;
 RT "Genomic sequence of the Wnt6 gene and the Wnt10a gene from human
 RT 2q35.";
 RL Submitted (Oct-2000) to the EMBL/GenBank/DBJ databases.
 RN SEQUENCE OF 295-337 FROM N.A.
 RX MEDLINE-99276447; PubMed-10343101;
 RA Rankin J., Strachan T., Lako M., Lindsay S.;
 RT "Partial cloning and assignment of WNT6 to human chromosome band 2q35
 RT by in situ hybridization.";
 RL Cytogenet. Cell Genet. 84:50-52(1999).
 CC -1- FUNCTION: LIGAND FOR MEMBERS OF THE FRIZZLED FAMILY OF SEVEN
 CC TRANSMEMBRANE RECEPTORS. PROBABLE DEVELOPMENTAL PROTEIN. MAY BE A
 CC SIGNALING MOLECULE WHICH AFFECTS THE DEVELOPMENT OF DISCRETE
 CC REGIONS OF TISSUES. IS LIKELY TO SIGNAL OVER ONLY FEW CELL
 CC DIAMETERS.
 CC -1- SUBCELLULAR LOCATION: Possibly secreted and associates with the
 CC extracellular matrix.
 CC -1- SIMILARITY: Belongs to the Wnt family.
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 CC EMBL: AY009401; AAC38661.1; -
 DR EMBL: AB059570; BAB35603.1; -
 DR EMBL: BC004329; AA043429.1; -
 DR EMBL: AF315943; AAG45154.1; -
 DR EMBL: AF079522; AAD41674.1; -
 DR PIR: JC7694; JC7694.
 DR Genew: HGNC:12785; WNT6.
 DR MIM: 604663; -

DR GO: GO:0005576; C:extracellular; NAS.
 DR GO: GO:0005201; F:extracellular matrix structural constituent; NAS.
 DR GO: GO:0007267; F:cell-cell signaling; NAS.
 DR GO: GO:0007275; P:development; NAS.
 DR InterPro: IPR005817; Wnt.
 DR InterPro: IPR005816; Wnt_growthfactor.
 DR Pfam: PF00110; Wnt; 1.
 DR PRINTS: PR01349; WNTPROTEIN.
 DR SMART: SM00097; WNT1; 1.
 DR PROSITE: PS00246; WNT1; 1.
 KM Wnt signaling pathway; Developmental protein; Glycoprotein; Signal.
 FT SIGNAL 1 24
 FT CHAIN 1 25
 FT CARBOHYD 86 86
 FT CARBOHYD 311 311
 SQ SEQUENCE 365 AA; 39720 MW; 928DE396C58E295B CRC64;
 Query Match 3.38; Score 8; DB 1; Length 365;
 Best Local Similarity 100.0%; Pred. No. 7.6;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 15 GILLILL 22
 DB 10 GILLILL 17
 RESULT 14
 ID GSA_AQUAE STANDARD; PRT; 424 AA.
 AC 066998;
 DT 30-MAY-2000 (Rel. 39, Created)
 DT 30-MAY-2000 (Rel. 39, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Glutamate-1-semialdehyde 2,1-aminomutase (EC 5.4.3.8) (GSA)
 DE (Glutamate-1-semialdehyde aminotransferase) (GSA-AT).
 GN HEML OR GSA OR AQ_816.
 OS Aquifex aeolicus.
 OX Bacteria; Aquificae; Aquificales; Aquificaceae; Aquifex.
 NCBI_TaxID:63363;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN-VF5;
 RX MEDLINE-98196666; PubMed-9537320;
 RA Decker G., Warren P.V., Gaasterland T., Young W.G., Lenox A.L.,
 RA Graham D.E., Overbeek R., Sneed M.A., Keller M., Aujay M., Huber R.,
 RA Feldman R.A., Short J.M., Olson G.J., Swanson R.V.;
 RT "The complete genome of the hyperthermophilic bacterium Aquifex
 RT aeolicus.";
 RL Nature 392:353-358(1998).
 CC -1- CATALYTIC ACTIVITY: (S)-4-amino-5-oxopentanoate - 5-
 CC aminolevulinate.
 CC -1- COFACTOR: Pyridoxal phosphate.
 CC -1- PATHWAY: Porphyrin biosynthesis by the C5 pathway; second step.
 CC -1- SUBUNIT: Homodimer (by similarity).
 CC -1- SUBCELLULAR LOCATION: Cytoplasmic (Potential).
 CC -1- SIMILARITY: Belongs to class-III of pyridoxal-phosphate-dependent
 CC aminotransferases.
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 CC or send an email to license@isb-sib.ch).
 CC EMBL: AE000709; AAC06964.1; -
 DR EMBL: AE000709; AAC06964.1; -
 DR PIR: C70371; C70371.
 DR HSSP: P24630; 2GSA.
 DR HAMAP: MF_00375; - 1.
 DR InterPro: IPR005814; Aminotrans_3.
 DR InterPro: IPR004639; HemL.
 DR Pfam: PF00202; aminotran_3; 1.

FT	CARBOHYD	323	323	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	CARBOHYD	392	392	N-LINKED (GLCNAC. . .) (POTENTIAL).
FT	DISULFID	42	112	
FT	DISULFID	159	188	
FT	DISULFID	328	370	
FT	LIPID	418	418	PALMITATE (BY SIMILARITY).
FT	LIPID	421	421	PALMITATE (BY SIMILARITY).
FT	VARSPIC	1	240	Missing (In Isoform 2).
FT	SEQUENCE	457 AA;	51296 MW;	IBIDA7527CB00F33 CRC64;
QY	17 LLLLLLQL	24		
Db	10 LLLLLLQL	17		

Query Match 3.3%: Score 8; DB 1; Length 457;
Best Local Similarity 100.0%; Pred. No. 9.2;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Search completed: August 13, 2003, 13:38:39
Job time : 25 secs

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GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:35:12 ; Search time 96 Seconds
(without alignments)
653.196 Million cell updates/sec

Title: US-09-938-418-7
Perfect score: 243
Sequence: 1 MRQGPASPFQRLGLLL.....GDASTGMSVSRILIELPK 243

Scoring table:
Gapop 60.0 , Gapext 60.0
Searched: 830525 seqs, 258052604 residues

Word size : 6
Total number of hits satisfying chosen parameters: 5107

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

SPTREMBL_23:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_rodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriaph:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	170	70.0	243	4	096CG8
2	169	69.5	232	4	081x63
3	111	45.7	245	11	09D1D6
4	111	45.7	245	11	08CG08
5	9	3.7	41	4	09DMW7
6	9	3.7	144	5	P90741
7	9	3.7	501	10	09AVM0
8	9	3.7	558	10	09ASN8
9	9	3.7	870	11	0921B6
10	9	3.7	996	11	0924X6
11	9	3.7	1461	4	076045
12	9	3.7	1464	4	08N473
13	8	3.3	59	11	08K312
14	8	3.3	65	11	091ZH3
15	8	3.3	108	11	09D9P8
16	8	3.3	111	5	09W2P6

17	8	3.3	113	11	060810	Q60810 mus musculu
18	8	3.3	116	5	08T3M4	Q8T3M4 drosophila
19	8	3.3	125	5	08IR67	Q8IR67 drosophila
20	8	3.3	136	4	08WXL0	Q8WXL0 homo sapien
21	8	3.3	141	6	08XSF0	Q8XSF0 bos taurus
22	8	3.3	159	4	08WXL1	Q8WXL1 homo sapien
23	8	3.3	181	16	08D4M9	Q8D4M9 vibrio vuln
24	8	3.3	185	11	09JL41	Q9JL41 mus musculu
25	8	3.3	204	11	08CGL2	Q8CGL2 rattus norv
26	8	3.3	228	4	08IXU9	Q8IXU9 homo sapien
27	8	3.3	230	11	09RI49	Q9RI49 cavia porce
28	8	3.3	249	16	054188	Q54188 streptomyce
29	8	3.3	249	17	08U2U7	Q8U2U7 pyrococcus
30	8	3.3	251	4	08WY22	Q8WY22 homo sapien
31	8	3.3	259	4	08NBH9	Q8NBH9 homo sapien
32	8	3.3	272	16	08DL11	Q8DL11 yersinia pe
33	8	3.3	284	4	09UC14	Q9UC14 homo sapien
34	8	3.3	289	4	096A28	Q96A28 homo sapien
35	8	3.3	290	10	09XH03	Q9XH03 arabidopsis
36	8	3.3	296	5	022389	Q22389 caenorhabd
37	8	3.3	302	5	019725	Q19725 caenorhabd
38	8	3.3	305	4	09UDP6	Q9UDP6 homo sapien
39	8	3.3	307	11	063742	Q63742 rattus sp.
40	8	3.3	307	11	062239	Q62239 mus musculu
41	8	3.3	316	4	09BV39	Q9BV39 homo sapien
42	8	3.3	322	4	09UHS4	Q9UHS4 homo sapien
43	8	3.3	333	5	019050	Q19050 caenorhabd
44	8	3.3	337	11	08C972	Q8C972 mus musculu
45	8	3.3	349	4	099018	Q99018 homo sapien

ALIGNMENTS

RESULT 1	096CG8	PRELIMINARY;	PRT;	243 AA.
ID	096CG8			
AC	096CG8;			
DT	01-DEC-2001 (TREMBLrel. 19, Created)			
DT	01-DEC-2001 (TREMBLrel. 19, Last sequence update)			
DT	01-MAR-2003 (TREMBLrel. 23, Last annotation update)			
DE	Similar to RIKEN cDNA 1110014B07 gene (Collagen triple helix repeat-containing protein 1).			
DE	repeat-containing protein 1).			
GN	CYHRC1.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.			
OX	NCBI_TaxID=9606;			
RN	[1]			
RC	SEQUENCE FROM N.A.			
RC	TISSUE-Kidney;			
RA	Strausberg R.;			
RL	Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE-Aortic smooth muscle;			
RA	Lehnert W., Moore D.P., Harmon R.J., Mancini M.L., Lindner V.;			
RT	"Expression of the novel collagen triple helix repeat-containing gene			
RT	(Chrc1) suggests functions in multiple organ systems.";			
RL	Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.			
DR	EMBL; BC014245; A0114245.1; -			
DR	EMBL; AY136825; A0115749.1; -			
DR	InterPro: IPR000087; Collagen.			
DR	Pfam: PF01391; Collagen; 1.			
SO	SEQUENCE 243 AA; 26224 MW; A11FE61C6867F9 CRC64;			
QY	74	IPPTGIPGKDGKGEKCELRSEFESWTPNPKQCSWSSLNIGIDGKIACTFTKMS	133	
Db	74	IPPTGIPGKDGKGEKCELRSEFESWTPNPKQCSWSSLNIGIDGKIACTFTKMS	133	

QY 134 NSALRVLFSGSLRLKCRNACCORWYFTFNGAECGSPLEIATIIYLDQSGPENNSTNIHR 193
 DB 134 NSALRVLFSGSLRLKCRNACCORWYFTFNGAECGSPLEIATIIYLDQSGPENNSTNIHR 193
 QY 194 TSSVEGLCEGIGAGLVDAIIVWGTCSDPYKGDASTGWNVSRIIEELPR 243
 DB 194 TSSVEGLCEGIGAGLVDAIIVWGTCSDPYKGDASTGWNVSRIIEELPR 243

RESULT 2

ID 081X63 PRELIMINARY; PRT: 232 AA.
 AC 081X63;
 DT 01-MAR-2003 (TREMBlrel. 23, Created)
 DT 01-MAR-2003 (TREMBlrel. 23, last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, last annotation update)
 DE NMCI.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Sasaki N., Fujiki K., Kanai A., Tanaka Y., Iwata T.;
 RT "Novel polypeptide found in human cornea cDNA library."
 RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF395488; AAO17919.1; -
 SQ SEQUENCE 232 AA; 25163 MW; E9D4BC30304837ED CRC64;

Query Match 69.5%; Score 169; DB 4; Length 232;
 Best Local Similarity 100.0%; Pred. No. 1.9e-166;
 Matches 169; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 74 IGTGPIGRDGFKEGKGECLRESEFESWTPTNYKQCSWSLNYGIDLGKIAECTFTKMS 133
 DB 60 IGTGPIGRDGFKEGKGECLRESEFESWTPTNYKQCSWSLNYGIDLGKIAECTFTKMS 119
 QY 134 NSALRVLFSGSLRLKCRNACCORWYFTFNGAECGSPLEIATIIYLDQSGPENNSTNIHR 193
 DB 120 NSALRVLFSGSLRLKCRNACCORWYFTFNGAECGSPLEIATIIYLDQSGPENNSTNIHR 179
 QY 194 TSSVEGLCEGIGAGLVDAIIVWGTCSDPYKGDASTGWNVSRIIEELPR 242
 DB 180 TSSVEGLCEGIGAGLVDAIIVWGTCSDPYKGDASTGWNVSRIIEELPR 228

RESULT 3

ID 09D1D6 PRELIMINARY; PRT: 245 AA.
 AC 09D1D6;
 DT 01-JUN-2001 (TREMBlrel. 17, Created)
 DT 01-JUN-2001 (TREMBlrel. 17, last sequence update)
 DT 01-OCT-2002 (TREMBlrel. 22, last annotation update)
 DE 1110014B07RIK protein.
 GN CTRHC1 OR 1110014B07RIK.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Embryo;
 RX MEDLINE=21085660; PubMed=11217851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K.,
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
 RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiya H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaudo I., Pesole G., Quackenbush J.,
 RA Schmitt L.M., Stabili F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,

RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bona M.F.,
 RA Brownstein M.J., Bull C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombarts P.,
 RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Toyono K., Wang K.H., Wetz C., Whitlaker C., Wilming L.,
 RA Yashima-Boris A., Yoshida K., Hasegawa Y., Kawai H., Kohsaki S.,
 RA Hayashizaki Y.;
 RT "Functional annotation of a full-length mouse cDNA collection."
 RL Nature 409:685-690(2001).
 DR EMBL: AK003674; BAB22930.1; -
 DR MGD: MGI:1915838; Ctrhl.
 DR InterPro: IPR000087; Collagen.
 DR Pfam: PF01391; Collagen; 1.
 SQ SEQUENCE 245 AA; 26460 MW; 14951B87D8181A0E CRC64;

Query Match 45.7%; Score 111; DB 11; Length 245;
 Best Local Similarity 100.0%; Pred. No. 2.4e-106;
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 74 IGTGPIGRDGFKEGKGECLRESEFESWTPTNYKQCSWSLNYGIDLGKIAECTFTKMS 133
 DB 76 IGTGPIGRDGFKEGKGECLRESEFESWTPTNYKQCSWSLNYGIDLGKIAECTFTKMS 135
 QY 134 NSALRVLFSGSLRLKCRNACCORWYFTFNGAECGSPLEIATIIYLDQSGPENNSTNIHR 184
 DB 136 NSALRVLFSGSLRLKCRNACCORWYFTFNGAECGSPLEIATIIYLDQSGPENNSTNIHR 186

RESULT 4

ID 08CG08 PRELIMINARY; PRT: 245 AA.
 AC 08CG08;
 DT 01-MAR-2003 (TREMBlrel. 23, Created)
 DT 01-MAR-2003 (TREMBlrel. 23, last sequence update)
 DT 01-MAR-2003 (TREMBlrel. 23, last annotation update)
 DE Collagen triple helix repeat-containing protein 1.
 GN CTRHC1.
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Sprague-Dawley;
 RA Lehnert W., Moore D.P., Harmon K.J., Mancini M.L., Lindner V.;
 RT "Expression of the novel collagen triple helix repeat-containing gene
 (Ctrhl) suggests functions in multiple organ systems."
 RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AF136824; AAN15748.1; -
 SQ SEQUENCE 245 AA; 26424 MW; 2296FD6DCDBA21F2 CRC64;

Query Match 45.7%; Score 111; DB 11; Length 245;
 Best Local Similarity 100.0%; Pred. No. 2.4e-106;
 Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 74 IGTGPIGRDGFKEGKGECLRESEFESWTPTNYKQCSWSLNYGIDLGKIAECTFTKMS 133
 DB 76 IGTGPIGRDGFKEGKGECLRESEFESWTPTNYKQCSWSLNYGIDLGKIAECTFTKMS 135
 QY 134 NSALRVLFSGSLRLKCRNACCORWYFTFNGAECGSPLEIATIIYLDQSGPENNSTNIHR 184
 DB 136 NSALRVLFSGSLRLKCRNACCORWYFTFNGAECGSPLEIATIIYLDQSGPENNSTNIHR 186

RESULT 5

ID 09DMM7 PRELIMINARY; PRT: 41 AA.
 AC 09DMM7;
 DT 01-MAY-2000 (TREMBlrel. 13, Created)
 DT 01-MAY-2000 (TREMBlrel. 13, last sequence update)
 DT 01-JUN-2002 (TREMBlrel. 21, last annotation update)


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DE Alpha-1 type I collagen (Fragment).
GN COL1A1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=83064528; PubMed=6183642;
RA Chu M.L., Myers J.C., Bernard M.P., Ding J.F., Ramirez F.;
RT "Cloning and characterization of five overlapping cDNAs specific for
RT the human pro alpha 1(I) collagen chain.";
RL Nucleic Acids Res. 10:5925-5934(1982).
DR EMBL; J00111; AA52290.1; -.
DR InterPro; IPR000087; Collagen.
DR Pfam; PF01391; Collagen; 1.
KM Collagen.
FT NON_TER.
FT SEQUENCE 41 AA; 3771 MW; 1B9D591B06A6C800 CRC64;
SQ
Query Match 3.7%; Score 9; DB 4; Length 41;
Best Local Similarity 100.0%; Pred. No. 0.21;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGSFGA 71
DB 26 PGRDGSFGA 34
|||||
P90741 PRELIMINARY; PRT; 144 AA.
ID P90741;
AC P90741;
DT 01-MAY-1997 (TREMBlrel. 03, Created)
DT 01-MAY-1997 (TREMBlrel. 03, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE C02F4.3 protein.
GN C02F4.3.
OS Caenorhabditis elegans.
OC Eukaryota; Metazoa; Nematoda; Chromadorea; Rhabditida; Rhabditoidea;
OC Rhabditidae; Peloderinae; Caenorhabditis.
OX NCBI_TaxID=6239;
RN [1]
RP SEQUENCE FROM N.A.
RA Cummings P.N.;
RL Submitted (OCT-1996) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
RT investigating biology.";
RL Science 282:2012-2018(1998).
DR EMBL; Z61032; CAB02722.1; -.
DR WormPep; C02F4.3; CE07854.
SQ SEQUENCE 144 AA; 16112 MW; 907F9DB1ACC1762 CRC64;

Query Match 3.7%; Score 9; DB 5; Length 144;
Best Local Similarity 100.0%; Pred. No. 0.67;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 LLLLLLQL 24
DB 67 LLLLLLQL 75
|||||
P9AVM0 PRELIMINARY; PRT; 501 AA.
ID P9AVM0;
AC P9AVM0;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)

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DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
DE Cytochrome P450.
GN CYP1B2.
OS Asparagus officinalis (Garden asparagus).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Asparagales; Asparagaceae;
OC Asparagus.
OX NCBI_TaxID=4686;
RN [1]
RP SEQUENCE FROM N.A.
RX TISSUE-Shoot;
RA Imishi H., Iwai C., Ohkawa H.;
RT "Molecular cloning of Cytochrome P450 CYP1B2 involved in the seedling of
RT Asparagus.";
RL Submitted (JAN-2000) to the EMBL/GenBank/DBJ databases.
CC -1 SIMILARITY: BELONGS TO THE CYTOCHROME P450 FAMILY.
DR EMBL; AB037245; BAB40324.1; -.
DR InterPro; IPR001128; Cytochrome_P450.
DR Pfam; PF00067; P450; 1.
DR PRINTS; PR00385; P450.
DR PROSITE; PS00086; CYTOCHROME_P450; 1.
KW Heme; Monooxygenase; Oxidoreductase.
SQ SEQUENCE 501 AA; 56336 MW; 8593A4265C21D5A CRC64;

Query Match 3.7%; Score 9; DB 10; Length 501;
Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 LLLLLLQL 24
DB 13 LLLLLLQL 21
|||||
P9ASNB PRELIMINARY; PRT; 558 AA.
ID P9ASNB;
AC P9ASNB;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DT 01-MAR-2003 (TREMBlrel. 23, Last annotation update)
DE P0554D10.9 protein.
GN P0554D10.9.
OS Oryza sativa (Rice).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OC Ehrhartioideae; Oryzaceae; Oryza.
OX NCBI_TaxID=4530;
RN [1]
RP SEQUENCE FROM N.A.
RX STRAIN=cv. Nipponbare;
RA Sasaki T., Matsumoto T., Yamamoto K.;
RT "Oryza sativa nipponbare(GA3) genomic DNA, chromosome 1, PAC
RT clone:P0554D10.";
RL Submitted (SEP-2000) to the EMBL/GenBank/DBJ databases.
DR EMBL; AP002869; BAB39225.1; -.
DR Gramene; P9ASNB; -.
DR InterPro; IPR002123; Acyltransferase.
DR SMART; SM00563; PlsC; 1.
SQ SEQUENCE 558 AA; 60411 MW; 7893EDF390B716B9 CRC64;

Query Match 3.7%; Score 9; DB 10; Length 558;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 LRGILLLL 21
DB 93 LRGILLLL 101
|||||
P921B6 PRELIMINARY; PRT; 870 AA.
ID P921B6;
AC P921B6;

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DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE Apoe receptor-2.
GN LRP8 OR APOER2.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21303597; PubMed=11294845;
RA Brandes C., Kahr L., Stockinger W., Hiesberger T., Schneider W.J.,
RA Nimpf J.;
RT *Alternative splicing in the ligand binding domain of mouse Apoe
RT receptor-2 produces receptor variants binding reelin but not alpha2-
RT macroglobulin.*
RL J. Biol. Chem. 276:22160-22169(2001).
DR MGD; MGI:1340044; Lrp8.
DR InterPro: IPR000152; Asx_hydroxyl.
DR InterPro: IPR001881; EGF_Ca.
DR InterPro: IPR006209; EGF_Like.
DR InterPro: IPR002172; LDL_receptor_A.
DR Pfam: PF00008; EGF_2.
DR Pfam: PF00057; LDL_recept_a; 5.
DR Pfam: PF00058; LDL_recept_b; 5.
DR PRINTS: PR00261; LDLRECEPTOR.
DR SMART: SM00179; EGF_CA; 1.
DR SMART: SM00135; LY; 5.
DR PROSITE: PS00010; ASX_HYDROXYL; 2.
DR PROSITE: PS01186; EGF_2; 2.
DR PROSITE: PS01187; EGF_CA; 1.
DR PROSITE: PS01209; LDLRA_1; 5.
DR PROSITE: PS00068; LDLRA_2; 5.
DR EGF-like domain; Receptor.
SQ SEQUENCE 870 AA; 96268 MW; FCD3982FDE18E3E0 CRC64;

Query Match
Best Local Similarity 3.7%; Score 9; DB 11; Length 870;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 16 LLLLLLQL 24
DB 14 LLLLLLQL 22

RESULT 10
O924X6 PRELIMINARY; PRT; 996 AA.
AC O924X6.
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE Apolipoprotein E receptor 2 precursor.
GN LRP8.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=98352008; PubMed=9685741;
RA Kim H.-J., Kim D.-H., Magoori K., Saeki S., Yamamoto T.;
RT "Evolution of the Apolipoprotein E Receptor 2 Gene by Exon Loss.";
RL J. Biochem. 124:451-456(1998).
DR EMBL; D85633; BAB46965.1; -.
DR MGD; MGI:1340044; Lrp8.
DR InterPro: IPR000152; Asx_hydroxyl.
DR InterPro: IPR001881; EGF_CA.

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DR InterPro: IPR006209; EGF_Like.
DR InterPro: IPR002172; LDL_receptor_A.
DR InterPro: IPR000033; LDL_receptor_rep.
DR Pfam: PF00057; LDL_recept_a; 8.
DR Pfam: PF00058; LDL_recept_b; 5.
DR PRINTS: PR00261; LDLRECEPTOR.
DR SMART: SM00179; EGF_CA; 1.
DR SMART: SM00192; LDLA; 8.
DR PROSITE: PS00010; ASX_HYDROXYL; 2.
DR PROSITE: PS01186; EGF_2; 2.
DR PROSITE: PS01187; EGF_CA; 1.
DR PROSITE: PS01209; LDLRA_1; 8.
DR PROSITE: PS00068; LDLRA_2; 8.
DR EGF-like domain; Lipoprotein; Receptor; Signal.
FT SIGNAL 1 35
FT CHAIN 36 996
FT POTENTIAL.
SQ SEQUENCE 996 AA; 109833 MW; 51DDA30ACE572529 CRC64;

Query Match
Best Local Similarity 3.7%; Score 9; DB 11; Length 996;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 16 LLLLLLQL 24
DB 14 LLLLLLQL 22

RESULT 11
O76045 PRELIMINARY; PRT; 1461 AA.
AC O76045.
DT 01-NOV-1998 (TREMBLrel. 08, Created)
DT 01-NOV-1999 (TREMBLrel. 12, Last sequence update)
DT 01-OCT-2002 (TREMBLrel. 22, Last annotation update)
DE Pro alpha 1(I) collagen.
GN COL1A1.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=85130970; PubMed=2857713;
RA Chu M.-L., de Wet W., Bernard M., Ramirez F.;
RT "Fine structural analysis of the human pro-alpha 1 (I) collagen gene.
RT Promoter structure, Alu repeats, and polymorphic transcripts.";
RL J. Biol. Chem. 260:2315-2320(1985).
RN [2]
RP SEQUENCE FROM N.A.
RX MEDLINE=88329734; PubMed=2843432;
RA D'Alessio M., Bernard M., Pretorius P.J., de Wet W., Ramirez F.;
RT "Complete nucleotide sequence of the region encompassing the first
RT twenty-five exons of the human pro alpha 1(I) collagen gene.";
RL Gene 67:105-115(1988).
RN [3]
RP SEQUENCE FROM N.A.
RX MEDLINE=89025644; PubMed=3178743;
RA Tromp G., Kuivaniemi H., Stacey A., Shikata H., Baldwin C.T.,
RA Jaenisch R., Prockop D.J.;
RT "Structure of a full-length cDNA clone for the prepro alpha 1(I) chain
RT of human type I procollagen.";
RL Biochem. J. 253:919-922(1988).
RN [4]
RP SEQUENCE FROM N.A.
RX MEDLINE=91138770; PubMed=1995349;
RA Maatta A., Bornstein P., Penttinen R.P.;
RT "Highly conserved sequences in the 3'-untranslated region of the
RT COL1A1 gene bind cell-specific nuclear proteins.";
RL FEBS Lett. 279:9-13(1991).
RN [5]
RP SEQUENCE FROM N.A.
RX MEDLINE=92157916; PubMed=1787829;

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RA Westerhausen A., Constantinou C.D., Pack M., Peng M.Z., Hanning C.,
 RA Olsen A.S., Prockop D.J.;
 RT "Completion of the last half of the structure of the human gene for
 RT the Pro alpha 1 (I) chain of type I procollagen (COL1A1).";
 RL Matrix 11:375-379(1991).
 RN [6]
 RP SEQUENCE FROM N.A.
 RX MEDLINE-98107942; PubMed-9443882;
 RA Korkko J., Ala-Kokko L., De Paepe A., Nuytlinck L., Earley J.,
 RA Prockop D.J.;
 RT "Analysis of the COL1A1 and COL1A2 genes by PCR amplification and
 RT scanning by conformation-sensitive gel electrophoresis identifies only
 RT COL1A1 mutations in 15 patients with osteogenesis imperfecta type I;
 RT Identification of common sequences of null-allele mutations.";
 RL Am. J. Hum. Genet. 62:98-110(1998).
 RN [7]
 RP SEQUENCE FROM N.A.
 RA Korkko J.M., Earley J.J., Nuytlinck L., DePaepe A., Prockop D.J.,
 RA Ala-Kokko L.;
 RL Submitted (MAY-1999) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AF017178; AA994054.2; -
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR000885; Fib.collagen_C.
 DR Pfam: PF01410; COLFI; 1.
 DR Pfam: PF01391; Collagen; 18.
 DR Pfam: PF00093; VWC; 1.
 DR ProDom: PD000007; Collagen; 2.
 DR ProDom: PD002078; Fib.collagen_C; 1.
 DR SMART; SM00038; COLFI; 1.
 DR SMART; SM00214; VWC; 1.
 DR PROSITE; PS01208; VWC; 1.
 KW Collagen.
 SQ SEQUENCE 1461 AA; 138630 MW; 9ACF6DE30EA78E21 CRC64;
 Query Match 3.7%; Score 9; DB 4; Length 1461;
 Best Local Similarity 100.0%; Pred. No. 5.6;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 63 PGRDGPFGA 71
 Db 1021 PGRDGPFGA 1029
 RESULT 12
 Q8N473 PRELIMINARY; PRT; 1464 AA.
 ID Q8N473;
 AC Q8N473;
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Hypothetical protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
 ON NCBI_TaxID=9606;
 GN [1]
 RP SEQUENCE FROM N.A.
 RC Tissue=Brain;
 RA Strausberg R.;
 RL Submitted (JUN-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC036531; AA936531.1; -
 DR InterPro: IPR000087; Collagen.
 DR InterPro: IPR000885; Fib.collagen_C.
 DR Pfam: PF01410; COLFI; 1.
 DR Pfam: PF01391; Collagen; 18.
 DR ProDom: PD000007; Collagen; 2.
 DR ProDom: PD002078; Fib.collagen_C; 1.
 DR SMART; SM00038; COLFI; 1.
 DR SMART; SM00214; VWC; 1.
 DR PROSITE; PS01208; VWC; 1.
 KW Hypothetical protein; Collagen.

SQ SEQUENCE 1464 AA; 139011 MW; B0581F8D1C89DDE8 CRC64;
 Query Match 3.7%; Score 9; DB 4; Length 1464;
 Best Local Similarity 100.0%; Pred. No. 5.6;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 63 PGRDGPFGA 71
 Db 1024 PGRDGPFGA 1032
 RESULT 13
 Q8K312 PRELIMINARY; PRT; 59 AA.
 ID Q8K312;
 AC Q8K312;
 DT 01-OCT-2002 (TrEMBLrel. 22, Created)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)
 DT 01-OCT-2002 (TrEMBLrel. 22, Last annotation update)
 DE Novel secreted protein precursor (Fragment).
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 ON NCBI_TaxID=10090;
 GN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=CD-1;
 RA Moffatt P., Salois P., Lanctot C., Gaumond M.-H., St-Amant N.,
 RA Godin E.;
 RT "Engineered viruses to select genes encoding secreted and membrane-
 RT bound proteins in mammalian cells.";
 RL Submitted (APR-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AY100450; AA047508.1; -
 KW Signal.
 FT SIGNAL.
 FT NON_TER
 SQ SEQUENCE 59 AA; 6775 MW; E88594100AF0C8B0 CRC64;
 Query Match 3.3%; Score 8; DB 11; Length 59;
 Best Local Similarity 100.0%; Pred. No. 3.2;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 15 GLILLILL 22
 Db 14 GLILLILL 21
 RESULT 14
 Q91ZH3 PRELIMINARY; PRT; 65 AA.
 ID Q91ZH3;
 AC Q91ZH3;
 DT 01-DEC-2001 (TrEMBLrel. 19, Created)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
 DT 01-DEC-2001 (TrEMBLrel. 19, Last annotation update)
 DE Endothelial and smooth muscle cell-derived neuropilin-like protein
 DE (Fragment).
 GN ESDN.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 ON NCBI_TaxID=10090;
 GN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=129/SvJ;
 RX PubMed=11447234;
 RA Kobuke K., Furukawa Y., Sugai M., Tanigaki K., Ohashi N.,
 RA Matsumori A., Sasayama S., Honjo T., Tashiro K.;
 RT "ESDN, A Novel Neuropilin-like Membrane Protein Cloned from Vascular
 RT Cells with the Longest Secretory Signal Sequence among Eukaryotes, Is
 RT Up-regulated after Vascular Injury.";
 RL J. Biol. Chem. 276:34105-34114(2001).
 DR EMBL; AF442820; AA130434.1; -
 FT NON_TER
 SQ SEQUENCE 65 AA; 6452 MW; 278864A1DE2E8D50 CRC64;

Query Match 3.3%; Score 8; DB 11; Length 65;
 Best Local Similarity 100.0%; Pred. No. 3.5;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 16 LLLLLLLQ 23
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 DB 52 LLLLLLLQ 59

RESULT 15

O9D9P8 PRELIMINARY; PRT; 108 AA.
 ID O9D9P8: 01-JUN-2001 (TREMBlrel. 17, Created)
 AC O9D9P8: 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
 DE 1700034015RIK protein.
 GN 1700034015RIK
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID-10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN-C57BL/6J; TISSUE-Testis;
 RX MEDLINE-21085660; PubMed-11217851;
 RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
 RA Arakawa T., Hara A., Fukunishi Y., Kono H., Adachi J., Fukuda S.,
 RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamana K.,
 RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
 RA Kadota K., Matsuda H.A., Ashburner M., Batilov S., Casavant T.,
 RA Fletschmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
 RA Kuehl P., Lewis S., Matsuo Y., Nikaide I., Pesole G., Quackenbush J.,
 RA Schiml L.M., Staubli F., Suzuki R., Tomita M., Wagner L., Washio T.,
 RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barsh G.,
 RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bona M.F.,
 RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
 RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
 RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
 RA Noridone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N.,
 RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
 RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whitaker C., Wilming L.,
 RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohsaki S.,
 RA Hayashizaki Y.,
 RT "Functional annotation of a full-length mouse cDNA collection."
 RL Nature 409:685-690(2001).
 DR EMBL; AK006606; BAB24671.1; -
 DR MGD; MGI:1923856; 1700034015RIK.
 SQ SEQUENCE 108 AA; 12138 MM; 154E27F37C5B6101 CRC64;

Query Match 3.3%; Score 8; DB 11; Length 108;
 Best Local Similarity 100.0%; Pred. No. 5.6;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 16 LLLLLLLQ 23
 |||||
 DB 17 LLLLLLLQ 24

Search completed: August 13, 2003, 13:40:22
 Job time : 97 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: August 13, 2003, 13:36:43 ; Search time 30 Seconds
(without alignments)
342.718 Million cell updates/sec

Title: US-09-938-418-7

Perfect score: 243
Sequence: 1 MKRQGPASPORTLRLILL.....GDASTGWSVSRILIEELPK 243

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 328717 seqs, 42310858 residues

Word size : 6

Total number of hits satisfying chosen parameters: 1566

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :

- Issued_Patents_AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	170	70.0	276	4	US-09-205-258-958 Sequence 958, App
2	88	36.2	243	4	US-09-489-847-205 Sequence 205, App
3	66	27.2	66	4	US-09-205-258-962 Sequence 962, App
4	52	21.4	52	4	US-09-205-258-961 Sequence 961, App
5	51	21.0	51	4	US-09-205-258-963 Sequence 963, App
6	40	16.5	93	4	US-09-489-847-240 Sequence 240, App
7	40	16.5	93	4	US-09-489-847-362 Sequence 362, App
8	30	12.3	52	4	US-09-205-258-960 Sequence 960, App
9	9	3.7	654	4	US-09-252-991A-25801 Sequence 25801, A
10	9	3.7	905	4	US-09-369-364A-9 Sequence 9, Appl1
11	9	3.7	1057	3	US-08-931-820-1 Sequence 1, Appl1
12	9	3.7	1341	3	US-08-963-825-18 Sequence 18, Appl
13	9	3.7	1341	4	US-09-500-811-18 Sequence 18, Appl
14	9	3.7	1341	4	US-09-570-573-18 Sequence 18, Appl
15	9	3.7	1441	4	US-09-548-608-18 Sequence 18, Appl
16	9	3.7	1461	4	US-09-585-887-9 Sequence 9, Appl1
17	9	3.7	1461	4	US-09-289-578-9 Sequence 9, Appl1
18	8	3.3	20	3	US-08-918-288-51 Sequence 51, Appl
19	8	3.3	20	3	US-08-918-288-56 Sequence 56, Appl
20	8	3.3	20	3	US-09-282-357-51 Sequence 51, Appl
21	8	3.3	20	3	US-09-282-357-56 Sequence 56, Appl
22	8	3.3	20	3	US-09-059-625-38 Sequence 38, Appl
23	8	3.3	71	4	US-09-059-625-7 Sequence 7, Appl1
24	8	3.3	72	4	US-09-059-625-4 Sequence 4, Appl1
25	8	3.3	143	4	US-09-227-357-192 Sequence 192, App
26	8	3.3	151	4	US-09-059-625-32 Sequence 32, Appl
27	8	3.3	151	4	US-09-059-625-43 Sequence 43, Appl

28	8	3.3	151	4	US-09-059-625-46 Sequence 46, Appl
29	8	3.3	151	4	US-09-059-625-59 Sequence 59, Appl
30	8	3.3	155	4	US-09-059-625-62 Sequence 62, Appl
31	8	3.3	158	4	US-09-059-625-1 Sequence 1, Appl1
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37	8	3.3	181	3	US-08-918-288-36 Sequence 36, Appl
38	8	3.3	181	3	US-09-282-357-36 Sequence 36, Appl
39	8	3.3	181	4	US-09-059-625-66 Sequence 66, Appl
40	8	3.3	184	4	US-09-059-625-67 Sequence 67, Appl
41	8	3.3	186	4	US-09-059-625-68 Sequence 68, Appl
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44	8	3.3	204	4	US-09-059-625-35 Sequence 35, Appl
45	8	3.3	204	4	US-09-059-625-49 Sequence 49, Appl

ALIGNMENTS

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US-09-205-258-958
; Sequence 958, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/09/205,258
; CURRENT FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
; EARLIER APPLICATION NUMBER: 60/048,885
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,375
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EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/070, 923
EARLIER FILING DATE: 1997-12-18
EARLIER APPLICATION NUMBER: 60/092, 921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/094, 657
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227
SOFTWARE: Patentl Ver. 2.0
SEQ ID NO 962
LENGTH: 66
TYPE: PRT
ORGANISM: Homo sapiens
US-09-205-258-962

Query Match 27.2% Score 66; DB 4; Length 66;
Best Local Similarity 100.0%; Pred. No. 1.3e-56;

Matches 66; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 188 TINHR 193

Db 61 TINHR 66
RESULT 4
US-09-205-258-961
Sequence 961, Application US/09205258
Patent No. 6525174
GENERAL INFORMATION:
APPLICANT: Young et al.
TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REFERENCE: P2007P1
CURRENT APPLICATION NUMBER: US/09/205, 258
CURRENT FILING DATE: 1998-12-04
EARLIER APPLICATION NUMBER: PCT/US98/11422
EARLIER FILING DATE: 1998-06-04
EARLIER APPLICATION NUMBER: 60/048, 885
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049, 375
EARLIER FILING DATE: 1997-06-06
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EARLIER FILING DATE: 1997-06-06
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EARLIER APPLICATION NUMBER: 60/048,883
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,897
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EARLIER APPLICATION NUMBER: 60/048,898
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EARLIER APPLICATION NUMBER: 60/048,963
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,877
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,878
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/070,923
EARLIER FILING DATE: 1997-12-18
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 961
LENGTH: 52
TYPE: PRT
ORGANISM: Homo sapiens
US-09-205-258-961

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Best Local Similarity 100.0%; Pred. No. 3,9e-43;
Matches 52; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 TPGIDRGDFGKGEKCELRSEFESWTPNYKQCSNINYGIDLKIACCTF 52

RESULT 5
US-09-205-258-963
Sequence 963, Application US/09205258
Patent No. 6525174
GENERAL INFORMATION:
APPLICANT: Young et al.
TITLE OF INVENTION: 207 Human Secreted Proteins
FILE REFERENCE: P2007P1
CURRENT APPLICATION NUMBER: US/09/205,258
CURRENT FILING DATE: 1998-12-04
EARLIER APPLICATION NUMBER: PCT/US98/11422
EARLIER FILING DATE: 1998-06-04
EARLIER APPLICATION NUMBER: 60/048,885
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/049,375
EARLIER FILING DATE: 1997-06-06
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EARLIER APPLICATION NUMBER: 60/048,878
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/070,923
EARLIER FILING DATE: 1997-12-18
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 963
LENGTH: 51
TYPE: PRT
ORGANISM: Homo sapiens
US-09-205-258-963

Query Match 21.0%; Score 51; DB 4; Length 51;
Best Local Similarity 100.0%; Pred. No. 3.6e-42;
Matches 51; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 RTSSVEGICGEGAGLVDAIVWGTCSDPKGDASTGNVSRIITEELPK 51

RESULT 6


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US-09-489-847-240
; Sequence 240, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; EARLIER FILING DATE: 2000-01-24
; EARLIER APPLICATION NUMBER: PCT/US99/17130
; EARLIER FILING DATE: 1999-07-29
; EARLIER APPLICATION NUMBER: 60/094,657
; EARLIER FILING DATE: 1998-07-30
; EARLIER APPLICATION NUMBER: 60/095,486
; EARLIER FILING DATE: 1998-08-05
; EARLIER APPLICATION NUMBER: 60/096,319
; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
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; LENGTH: 93
; TYPE: PRT
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US-09-489-847-240

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Query Match 16.5%; Score 40; DB 4; Length 93;
Best Local Similarity 100.0%; Pred. No. 2.9e-31;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 MRPGPASPQRRLGILLILLQLPAPSSASEIPKGRKA 40
DB 1 MRPGPASPQRRLGILLILLQLPAPSSASEIPKGRKA 40

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; Sequence 362, Application US/09489847
; Patent No. 6476195
; GENERAL INFORMATION:
; APPLICANT: Rosen et al
; TITLE OF INVENTION: 98 Human Secreted Proteins
; FILE REFERENCE: P2031P1
; CURRENT APPLICATION NUMBER: US/09/489,847
; EARLIER FILING DATE: 2000-01-24
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; EARLIER FILING DATE: 1998-08-12
; EARLIER APPLICATION NUMBER: 60/095,454
; EARLIER FILING DATE: 1998-08-06
; EARLIER APPLICATION NUMBER: 60/095,455
; EARLIER FILING DATE: 1998-08-06
; NUMBER OF SEQ ID NOS: 376
; SOFTWARE: PatentIn Ver. 2.0
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; LENGTH: 93
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-489-847-362

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Best Local Similarity 100.0%; Pred. No. 2.9e-31;
Matches 40; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MRPGPASPQRRLGILLILLQLPAPSSASEIPKGRKA 40
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US-09-205-258-960
; Sequence 960, Application US/09205258
; Patent No. 6525174
; GENERAL INFORMATION:
; APPLICANT: Young et al.
; TITLE OF INVENTION: 207 Human Secreted Proteins
; FILE REFERENCE: P2007P1
; CURRENT APPLICATION NUMBER: US/09/205,258
; EARLIER FILING DATE: 1998-12-04
; EARLIER APPLICATION NUMBER: PCT/US98/11422
; EARLIER FILING DATE: 1998-06-04
; EARLIER APPLICATION NUMBER: 60/048,885
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/049,375
; EARLIER FILING DATE: 1997-06-06
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; EARLIER APPLICATION NUMBER: 60/048,884
; EARLIER FILING DATE: 1997-06-06
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; EARLIER FILING DATE: 1997-06-06
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EARLIER FILING DATE: 1997-06-06
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EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,877
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/048,878
EARLIER FILING DATE: 1997-06-06
EARLIER APPLICATION NUMBER: 60/070,923
EARLIER FILING DATE: 1997-12-18
EARLIER APPLICATION NUMBER: 60/092,921
EARLIER FILING DATE: 1998-07-15
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
NUMBER OF SEQ ID NOS: 1227
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 960
LENGTH: 52
TYPE: PRT
ORGANISM: Homo sapiens
US-09-205-258-960

Query Match 12.3%: Score 30; DB 4; Length 52;
Best Local Similarity 100.0%; Pred. No. 8.4e-22;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 43 ROREVVDLYNMGCLGPGAGVPGRDSPGAN 72
DB 15 ROREVVDLYNMGCLGPGAGVPGRDSPGAN 44

RESULT 9
US-09-252-991A-25801
Sequence 25801, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 25801
LENGTH: 654
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-25801

Query Match 3.7%: Score 9; DB 4; Length 654;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 RPOGPAASP 10
DB 453 RPOGPAASP 461

RESULT 10
US-09-369-364A-9
Sequence 9, Application US/09369364A
Patent No. 6391610

GENERAL INFORMATION:
APPLICANT: Apte, Suneel
APPLICANT: Hurskainen, Tiina L.
APPLICANT: Hirahata, Satoshi
TITLE OF INVENTION: Nucleic Acids Encoding Zinc Metalloproteases
FILE REFERENCE: 26473/4007/10-30-00
CURRENT APPLICATION NUMBER: US/09/369,364A
CURRENT FILING DATE: 1999-08-06
NUMBER OF SEQ ID NOS: 31
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 9
LENGTH: 905
TYPE: PRT
ORGANISM: Mus musculus ADAMTS-8
US-09-369-364A-9

Query Match 3.7%: Score 9; DB 4; Length 905;
Best Local Similarity 100.0%; Pred. No. 2.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 17 LLLLLLQLP 25
DB 13 LLLLLLQLP 21

RESULT 11
US-08-931-820-1
Sequence 1, Application US/08931820
Patent No. 6010863
GENERAL INFORMATION:
APPLICANT:
TITLE OF INVENTION: Assay for collagen degradation
NUMBER OF SEQUENCES: 4
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/931,820
FILING DATE:
CLASSIFICATION: A35
PRIOR APPLICATION DATA:
APPLICATION NUMBER: EP 96202596.1
FILING DATE:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 1057 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
TISSUE TYPE: Collagen type I
US-08-931-820-1

Query Match 3.7%: Score 9; DB 3; Length 1057;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 63 PGRDGPAGA 71
DB 863 PGRDGPAGA 871

RESULT 12
US-08-963-825-18
Sequence 18, Application US/08963825
Patent No. 6110689
GENERAL INFORMATION:

APPLICANT: Ovist, Per
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: In Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and Use of the Method to Diagnose the Presence of
TITLE OF INVENTION: Disorders Associated with the Metabolism of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/963,825
FILING DATE:
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/187,319
FILING DATE: 21-JAN-1994
ATTORNEY/AGENT INFORMATION:
NAME: Gogoris, Adda C
REGISTRATION NUMBER: 29,714
REFERENCE/DOCKET NUMBER: 4305/08701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-527-7700
TELEFAX: 212-753-6237
TELEX: 236687
INFORMATION FOR SEQ. ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1341 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
CLONE: COLLAGEN ALPHA 1 (I)
US-08-963-825-18

Query Match 3.7%; Score 9; DB 3; Length 1341;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGSFGA 71
Db 900 PGRDGSFGA 908

RESULT 13
US-09-500-811-18
Sequence 18, Application US/09500811
Patent No. 6323314
GENERAL INFORMATION:
APPLICANT: Ovist, Per
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: In Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and Use of the Method to Diagnose the Presence of
TITLE OF INVENTION: Disorders Associated with the Metabolism of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA

ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/500,811
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,319
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Gogoris, Adda C
REGISTRATION NUMBER: 29,714
REFERENCE/DOCKET NUMBER: 4305/08701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-527-7700
TELEFAX: 212-753-6237
TELEX: 236687
INFORMATION FOR SEQ. ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1341 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
CLONE: COLLAGEN ALPHA 1 (I)
US-09-500-811-18

Query Match 3.7%; Score 9; DB 4; Length 1341;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGSFGA 71
Db 900 PGRDGSFGA 908

RESULT 14
US-09-570-573-18
Sequence 18, Application US/09570573
Patent No. 6342361
GENERAL INFORMATION:
APPLICANT: Ovist, Per
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: In Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and Use of the Method to Diagnose the Presence of
TITLE OF INVENTION: Disorders Associated with the Metabolism of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/570,573
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,319
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: GOGOTIS, Adda C
REGISTRATION NUMBER: 29,714
REFERENCE/DOCKET NUMBER: 4305/08701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-527-7700
TELEFAX: 212-753-6237
TELEX: 236687
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1341 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
CLONE: COLLAGEN ALPHA 1 (I)
US-09-570-573-18

Query Match 3.7%; Score 9; DB 4; Length 1341;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDSPGA 71
Db 900 PGRDSPGA 908

RESULT 15
US-09-548-608-18
Sequence 18, Application US/09548608
Patent No. 6355442
GENERAL INFORMATION:
APPLICANT: Qvist, Per
APPLICANT: Bonde, Martin
TITLE OF INVENTION: A Method for Assaying Collagen Fragments
TITLE OF INVENTION: In Body Fluids, A Test Kit and Means for Carrying Out the
TITLE OF INVENTION: Method and Use of the Method to Diagnose the Presence of
TITLE OF INVENTION: Disorders Associated with the Metabolism of
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Darby & Darby PC
STREET: 805 Third Avenue
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10022
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/548,608
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/187,319
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: GOGOTIS, Adda C
REGISTRATION NUMBER: 29,714
REFERENCE/DOCKET NUMBER: 4305/08701
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-527-7700
TELEFAX: 212-753-6237
TELEX: 236687
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1341 amino acids
TYPE: amino acid
TOPOLOGY: linear

MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: Homo sapiens
IMMEDIATE SOURCE:
CLONE: COLLAGEN ALPHA 1 (I)
US-09-548-608-18

Query Match 3.7%; Score 9; DB 4; Length 1341;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDSPGA 71
Db 900 PGRDSPGA 908

Search completed: August 13, 2003, 13:41:44
Job time : 30 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:40:28 ; Search time 56 Seconds
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Title: US-09-938-418-7

Perfect score: 243

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	243	100.0	243	12	US-10-015-387A-431
6	243	100.0	243	12	US-10-063-735-122
7	243	100.0	243	12	US-10-006-130A-352
8	243	100.0	243	12	US-10-006-130A-431
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10	243	100.0	243	14	US-10-052-586-366
11	243	100.0	243	14	US-10-007-805-514
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26	243	100.0	243	15	US-10-076-622-514	Sequence 514, App
27	243	100.0	243	15	US-10-063-502-122	Sequence 122, App
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34	243	100.0	243	15	US-10-175-740-366	Sequence 366, App
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36	243	100.0	243	15	US-10-176-488-366	Sequence 366, App
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38	243	100.0	243	15	US-10-176-747-366	Sequence 366, App
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40	243	100.0	243	15	US-10-176-985-366	Sequence 366, App
41	243	100.0	243	15	US-10-176-987-366	Sequence 366, App
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44	243	100.0	243	15	US-10-184-658-366	Sequence 366, App
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ALIGNMENTS

RESULT 1
US-09-938-418-7
Sequence 7, Application US/09938418
Patent No. US20020161199A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul
APPLICANT: Guney, Austin L.
APPLICANT: Polakis, Paul
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
APPLICANT: Wu, Thomas D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
TREATMENT OF TUMOR
FILE REFERENCE: P50991
CURRENT FILING DATE: 2001-08-23
PRIOR APPLICATION NUMBER: US/09/938,418
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: 60/085,697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/097,022
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/101,922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/103,679
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US00/04342

PRIOR APPLICATION NUMBER: 60/100710
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100711
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100848
PRIOR FILING DATE: 1998-09-18
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PRIOR APPLICATION NUMBER: 60/102331
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102484
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102487
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102570
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102571
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102684
PRIOR FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/102687
PRIOR FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/102965
PRIOR FILING DATE: 1998-10-02
PRIOR APPLICATION NUMBER: 60/103258
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103314
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103315

PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103328
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103395
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103396
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103401
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103449
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103633
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103678
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103679
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103711
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/104257
PRIOR FILING DATE: 1998-10-14
PRIOR APPLICATION NUMBER: 60/104987
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105000
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105002
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105104
PRIOR FILING DATE: 1998-10-21
PRIOR APPLICATION NUMBER: 60/105169
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105266
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105693
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105694
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105807

Query Match 100.0%; Score 243; DB 11; Length 243;
Best Local Similarity 100.0%; Pred. No. 6,7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPQRRLGLLLILLQLPAPSSASEIPKGRKQALRQREVVLDYNGMCLGPA 60
|||||
Db 1 MRPGPASPQRRLGLLLILLQLPAPSSASEIPKGRKQALRQREVVLDYNGMCLGPA 60
61 GVPGRDGPANVITPGIPGIRGDFKGEKGECLRESFEESWTPNYKQCSWSLNYGIDL 120
|||||
QY 121 GKTAECFTKMRSSALRVFSSGLRLKCRNACCRMYFTFNAGCSGPIETEAIIYLDQ 180
|||||
Db 121 GKTAECFTKMRSSALRVFSSGLRLKCRNACCRMYFTFNAGCSGPIETEAIIYLDQ 180
181 GSPENSTINIHRTSVYEGJGAGLVDAIIVGTCSDYPKDASTGNNYSRIITEE 240
|||||
Db 181 GSPENSTINIHRTSVYEGJGAGLVDAIIVGTCSDYPKDASTGNNYSRIITEE 240
241 LPK 243
|||
QY 241 LPK 243
|||
Db 241 LPK 243

RESULT 3

US-09-946-374-431
; Sequence 431, Application US/09946374
; Publication No. US20030073129A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Christopher J.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tamas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C1
CURRENT APPLICATION NUMBER: US/09/946,374
CURRENT FILING DATE: 2001-09-04
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098723
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098749
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098750
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098803
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/098821
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/098843
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/099536
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099596
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099598
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099602
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099642
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099741
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099754
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099763
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099792
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099808
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099815
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099816
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100385
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100388
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100390
PRIOR FILING DATE: 1998-09-15
PRIOR APPLICATION NUMBER: 60/100584
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100627
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100661

PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100662
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100664
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100683
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100684
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100710
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100711
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100848
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/100849
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/100919
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100930
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101014
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101068
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101071
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101279
PRIOR FILING DATE: 1998-09-22
PRIOR APPLICATION NUMBER: 60/101471
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101472
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101474
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101475
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101476
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101477
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101479
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101741
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101743
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101915
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/102207
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102240
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102307
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102330
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102331
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102484
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102487
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102570
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102571
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102684
PRIOR FILING DATE: 1998-10-01

APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C54
CURRENT APPLICATION NUMBER: US/10/015,387A
CURRENT FILING DATE: 2001-12-12
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 431
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-015-387A-431.

Query Match 100.0%; Score 243; DB 12; Length 243;
Best Local Similarity 100.0%; Pred. No. 6,7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPAASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
DB 1 MRPGPAASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
QY 61 GVPGRDGSFGANVIGTPIGRDGFKEGKGECLRESEFESEWTPYKQCSWSLNYGIDL 120
DB 61 GVPGRDGSFGANVIGTPIGRDGFKEGKGECLRESEFESEWTPYKQCSWSLNYGIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCORWYFTFNGACSGPLPEAITIYDQ 180
DB 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCORWYFTFNGACSGPLPEAITIYDQ 180
QY 181 GSPEMNSTINIHRTSSVGEICGAGLVDAIWWGTCSDYPKGDASTGMSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVGEICGAGLVDAIWWGTCSDYPKGDASTGMSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 6
US-10-063-735-122
Sequence 122, Application US/10063735
Publication No. US20030138882A1
GENERAL INFORMATION:
APPLICANT: Baton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Watanabe, Colin K.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P2830P1C1
CURRENT APPLICATION NUMBER: US/10/063,735
CURRENT FILING DATE: 2002-05-08
Prior Application removed - See Palm or File Wrapper
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 122
LENGTH: 243
TYPE: PRT
ORGANISM: Homo Sapien
US-10-063-735-122

Query Match 100.0%; Score 243; DB 12; Length 243;
Best Local Similarity 100.0%; Pred. No. 6,7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGPAASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60

DB 1 MRPGPAASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
QY 61 GVPGRDGSFGANVIGTPIGRDGFKEGKGECLRESEFESEWTPYKQCSWSLNYGIDL 120
DB 61 GVPGRDGSFGANVIGTPIGRDGFKEGKGECLRESEFESEWTPYKQCSWSLNYGIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCORWYFTFNGACSGPLPEAITIYDQ 180
DB 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCORWYFTFNGACSGPLPEAITIYDQ 180
QY 181 GSPEMNSTINIHRTSSVGEICGAGLVDAIWWGTCSDYPKGDASTGMSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVGEICGAGLVDAIWWGTCSDYPKGDASTGMSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 7
US-10-006-130A-352
Sequence 352, Application US/10006130A
Publication No. US20030148375A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C7
CURRENT APPLICATION NUMBER: US/10/006,130A
CURRENT FILING DATE: 2002-03-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 352
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
US-10-006-130A-352

Query Match 100.0%; Score 243; DB 12; Length 243;
Best Local Similarity 100.0%; Pred. No. 6,7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGPAASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
DB 1 MRPGPAASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALRQREVVDLYNGMCLQGPA 60
QY 61 GVPGRDGSFGANVIGTPIGRDGFKEGKGECLRESEFESEWTPYKQCSWSLNYGIDL 120
DB 61 GVPGRDGSFGANVIGTPIGRDGFKEGKGECLRESEFESEWTPYKQCSWSLNYGIDL 120
QY 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCORWYFTFNGACSGPLPEAITIYDQ 180
DB 121 GKIAECTFTKMRNSALRVLFSGSLRLKCRNACCORWYFTFNGACSGPLPEAITIYDQ 180
QY 181 GSPEMNSTINIHRTSSVGEICGAGLVDAIWWGTCSDYPKGDASTGMSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVGEICGAGLVDAIWWGTCSDYPKGDASTGMSVSRITIEE 240
QY 241 LPK 243

Db 241 LPK 243

RESULT 8

US-10-006-130A-431
; Sequence 431, Application US/10006130A
; Publication No. US20030148375A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C7
; CURRENT APPLICATION NUMBER: US/10/006,130A
; CURRENT FILING DATE: 2002-03-19
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 431
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-006-130A-431

Query Match Best Local Similarity 100.0%; Score 243; DB 12; Length 243;

Mismatches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPORLRLGLLLLLLLLPAPSSASEIPKQKQALRQREVVDLYNGMCLGPA 60
DB 1 MRPGPASPORLRLGLLLLLLLLPAPSSASEIPKQKQALRQREVVDLYNGMCLGPA 60
QY 61 GVPGRDSSPGANVTPGTGIPGRDGFGEKGECLRESFESWTPNYKQCSNSSLNTGIDL 120
DB 61 GVPGRDSSPGANVTPGTGIPGRDGFGEKGECLRESFESWTPNYKQCSNSSLNTGIDL 120
QY 121 GKIAECTFTKRSNSALRVLFSSGLRLKCRNACCORRYFTFNGAECGSLPIEAIITLDQ 180
DB 121 GKIAECTFTKRSNSALRVLFSSGLRLKCRNACCORRYFTFNGAECGSLPIEAIITLDQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDYPRGDASTGNNVSRIITIEE 240
DB 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDYPRGDASTGNNVSRIITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 9

US-10-199-672-366
; Sequence 366, Application US/10199672
; Publication No. US20030148442A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James

APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME

FILE REFERENCE: P3430R1C1

CURRENT APPLICATION NUMBER: US/10/199,672

CURRENT FILING DATE: 2002-07-18

PRIOR APPLICATION NUMBER: US/10/052,586

PRIOR FILING DATE: 2002-01-15

PRIOR APPLICATION NUMBER: 60/059263

PRIOR FILING DATE: 1997-09-18

PRIOR APPLICATION NUMBER: 60/059266

PRIOR FILING DATE: 1997-09-18

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/063120

PRIOR FILING DATE: 1997-10-24

PRIOR APPLICATION NUMBER: 60/063121

PRIOR FILING DATE: 1997-10-24

PRIOR APPLICATION NUMBER: 60/063486

PRIOR FILING DATE: 1997-10-21

PRIOR APPLICATION NUMBER: 60/063540

PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/063541

PRIOR FILING DATE: 1997-10-28

PRIOR APPLICATION NUMBER: 60/063544

PRIOR FILING DATE: 1997-10-28

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 612

SEQ ID NO 366

LENGTH: 243

TYPE: PRT

ORGANISM: Homo Sapien

US-10-199-672-366

Query Match Best Local Similarity 100.0%; Score 243; DB 12; Length 243;

Mismatches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPORLRLGLLLLLLLLPAPSSASEIPKQKQALRQREVVDLYNGMCLGPA 60
DB 1 MRPGPASPORLRLGLLLLLLLLPAPSSASEIPKQKQALRQREVVDLYNGMCLGPA 60
QY 61 GVPGRDSSPGANVTPGTGIPGRDGFGEKGECLRESFESWTPNYKQCSNSSLNTGIDL 120
DB 61 GVPGRDSSPGANVTPGTGIPGRDGFGEKGECLRESFESWTPNYKQCSNSSLNTGIDL 120
QY 121 GKIAECTFTKRSNSALRVLFSSGLRLKCRNACCORRYFTFNGAECGSLPIEAIITLDQ 180
DB 121 GKIAECTFTKRSNSALRVLFSSGLRLKCRNACCORRYFTFNGAECGSLPIEAIITLDQ 180
QY 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDYPRGDASTGNNVSRIITIEE 240
DB 181 GSPEMNSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDYPRGDASTGNNVSRIITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 10

US-10-006-867-122
; Sequence 122, Application US/10006867
; Publication No. US20020119130A1
; GENERAL INFORMATION:
; APPLICANT: Eaton, Dan L.
; APPLICANT: Flivaroff, Ellen
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.
APPLICANT: Macanade, Colin K.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/006,867
CURRENT FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 60/063435
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/064215
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088740
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088811
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088824
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088825
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088863
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22
PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090688
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091628
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/096012
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/096757
PRIOR FILING DATE: 1998-08-17
PRIOR APPLICATION NUMBER: 60/096949
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/096959
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/097954
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/097971
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/097979
PRIOR FILING DATE: 1998-08-26
PRIOR APPLICATION NUMBER: 60/098749

PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/099741
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099763
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099792
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099815
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100627
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100662
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 60/100683
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100684
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100930
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101279
PRIOR FILING DATE: 1998-09-22
PRIOR APPLICATION NUMBER: 60/101475
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101743
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/102570
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/103449
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103678
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103679
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103711
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/105000
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105002
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105881
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/106030
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/106464
PRIOR FILING DATE: 1998-10-30
PRIOR APPLICATION NUMBER: 60/106856
PRIOR FILING DATE: 1998-11-03
PRIOR APPLICATION NUMBER: 60/108807
PRIOR FILING DATE: 1998-11-17
PRIOR APPLICATION NUMBER: 60/112419
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/112422
PRIOR FILING DATE: 1998-12-15
PRIOR APPLICATION NUMBER: 60/112853
PRIOR FILING DATE: 1998-12-16
PRIOR APPLICATION NUMBER: 60/113011
PRIOR FILING DATE: 1998-12-16
PRIOR APPLICATION NUMBER: 60/112854
PRIOR FILING DATE: 1998-12-16
PRIOR APPLICATION NUMBER: 60/113300
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/113408
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: 60/113430
PRIOR FILING DATE: 1998-12-23
PRIOR APPLICATION NUMBER: 60/113621
PRIOR FILING DATE: 1998-12-23

;; PRIOR APPLICATION NUMBER: 60/114223
;; PRIOR FILING DATE: 1998-12-30
;; PRIOR APPLICATION NUMBER: 60/115614
;; PRIOR FILING DATE: 1999-01-12
;; PRIOR APPLICATION NUMBER: 60/116527
;; PRIOR FILING DATE: 1999-01-20
;; PRIOR APPLICATION NUMBER: 60/116843
;; PRIOR FILING DATE: 1999-01-22
;; PRIOR APPLICATION NUMBER: 60/119285
;; PRIOR FILING DATE: 1999-02-09
;; PRIOR APPLICATION NUMBER: 60/119287
;; PRIOR FILING DATE: 1999-02-09
;; PRIOR APPLICATION NUMBER: 60/119525
;; PRIOR FILING DATE: 1999-02-10
;; PRIOR APPLICATION NUMBER: 60/119549
;; PRIOR FILING DATE: 1999-02-10
;; PRIOR APPLICATION NUMBER: 60/120014
;; PRIOR FILING DATE: 1999-02-11
;; PRIOR APPLICATION NUMBER: 60/129122
;; PRIOR FILING DATE: 1999-04-13
;; PRIOR APPLICATION NUMBER: 60/129674
;; PRIOR FILING DATE: 1999-04-16
;; PRIOR APPLICATION NUMBER: 60/131291
;; PRIOR FILING DATE: 1999-04-27
;; PRIOR APPLICATION NUMBER: 60/138387
;; PRIOR FILING DATE: 1999-06-09
;; PRIOR APPLICATION NUMBER: 60/144791
;; PRIOR FILING DATE: 1999-07-20
;; PRIOR APPLICATION NUMBER: 60/169495
;; PRIOR FILING DATE: 1999-12-07
;; PRIOR APPLICATION NUMBER: 60/175481
;; PRIOR FILING DATE: 2000-01-11
;; PRIOR APPLICATION NUMBER: 60/191007
;; PRIOR FILING DATE: 2000-03-21
;; PRIOR APPLICATION NUMBER: 60/199397
;; PRIOR FILING DATE: 2000-04-25
;; PRIOR APPLICATION NUMBER: 09/380139
;; PRIOR FILING DATE: 1998-08-25
;; PRIOR APPLICATION NUMBER: 09/311832
;; PRIOR FILING DATE: 1999-05-14
;; PRIOR APPLICATION NUMBER: 09/380137
;; PRIOR FILING DATE: 1999-08-25
;; PRIOR APPLICATION NUMBER: 09/380138
;; PRIOR FILING DATE: 1999-08-25
;; PRIOR APPLICATION NUMBER: 09/380142

Query Match 100.0%; Score 243; DB 14; Length 243;
Best Local Similarity 100.0%; Pred. No. 6,7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGRAASPORLRLGLLLLLLLLPAPSSASEIPKKGKOKAOLROREYVDLYNMGCLOGPA 60
DB 1 MRPGRAASPORLRLGLLLLLLLLPAPSSASEIPKKGKOKAOLROREYVDLYNMGCLOGPA 60
QY 61 GVPGRDGSFGANYIPETPGIPGRDGFKEGKECLRSFEESSWTPNTKQCSWSILANTGIDL 120
DB 61 GVPGRDGSFGANYIPETPGIPGRDGFKEGKECLRSFEESSWTPNTKQCSWSILANTGIDL 120
QY 121 GKIAETFTKMRNSALRVLFSGSLRLKCRNACCOWYFFFNKAEESSGPPIAIIYLDQ 180
DB 121 GKIAETFTKMRNSALRVLFSGSLRLKCRNACCOWYFFFNKAEESSGPPIAIIYLDQ 180
QY 181 GSPENSTNIHRTSSVEGLCEGIGAGLVDAIWTGTCSDYPKGDASTGNSTRIITIEE 240
DB 181 GSPENSTNIHRTSSVEGLCEGIGAGLVDAIWTGTCSDYPKGDASTGNSTRIITIEE 240
QY 241 LPR 243
DB 241 LPR 243

RESULT 11
US-10-052-586-366

;; Sequence 366, Application US/10052586
;; Publication No. US20020127584A1
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Chen, Jian
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Gurney, Austin L.
;; APPLICANT: Pan, James
;; APPLICANT: Smith, Victoria
;; APPLICANT: Matanabe, Colin K.
;; APPLICANT: Wood, William I.
;; APPLICANT: Zhang, Zemin
;; TITLE OR INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;; FILE REFERENCE: P3430R1c1
;; CURRENT APPLICATION NUMBER: US/10/052,586
;; CURRENT FILING DATE: 2002-01-15
;; PRIOR APPLICATION NUMBER: 60/059263
;; PRIOR FILING DATE: 1997-09-18
;; PRIOR APPLICATION NUMBER: 60/059266
;; PRIOR FILING DATE: 1997-09-18
;; PRIOR APPLICATION NUMBER: 60/062250
;; PRIOR FILING DATE: 1997-10-17
;; PRIOR APPLICATION NUMBER: 60/063120
;; PRIOR FILING DATE: 1997-10-24
;; PRIOR APPLICATION NUMBER: 60/063121
;; PRIOR FILING DATE: 1997-10-24
;; PRIOR APPLICATION NUMBER: 60/063486
;; PRIOR FILING DATE: 1997-10-21
;; PRIOR APPLICATION NUMBER: 60/063540
;; PRIOR FILING DATE: 1997-10-28
;; PRIOR APPLICATION NUMBER: 60/063541
;; PRIOR FILING DATE: 1997-10-28
;; PRIOR APPLICATION NUMBER: 60/063544
;; PRIOR FILING DATE: 1997-10-28
;; PRIOR APPLICATION NUMBER: 60/063564
;; PRIOR FILING DATE: 1997-10-28
;; PRIOR APPLICATION NUMBER: 60/063734
;; PRIOR FILING DATE: 1997-10-29
;; PRIOR APPLICATION NUMBER: 60/063870
;; PRIOR FILING DATE: 1997-10-31
;; PRIOR APPLICATION NUMBER: 60/064103
;; PRIOR FILING DATE: 1997-10-31
;; PRIOR APPLICATION NUMBER: 60/065311
;; PRIOR FILING DATE: 1997-11-13
;; PRIOR APPLICATION NUMBER: 60/066120
;; PRIOR FILING DATE: 1997-11-21
;; PRIOR APPLICATION NUMBER: 60/066466
;; PRIOR FILING DATE: 1997-11-24
;; PRIOR APPLICATION NUMBER: 60/066772
;; PRIOR FILING DATE: 1997-11-24
;; PRIOR APPLICATION NUMBER: 60/069335
;; PRIOR FILING DATE: 1997-12-11
;; PRIOR APPLICATION NUMBER: 60/069425
;; PRIOR FILING DATE: 1997-12-12
;; PRIOR APPLICATION NUMBER: 60/069870
;; PRIOR FILING DATE: 1997-12-17
;; PRIOR APPLICATION NUMBER: 60/068017
;; PRIOR FILING DATE: 1997-12-18
;; PRIOR APPLICATION NUMBER: 60/077450
;; PRIOR FILING DATE: 1998-03-10
;; PRIOR APPLICATION NUMBER: 60/077652
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/077649
;; PRIOR FILING DATE: 1998-03-11
;; PRIOR APPLICATION NUMBER: 60/078886
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/078939
;; PRIOR FILING DATE: 1998-03-20
;; PRIOR APPLICATION NUMBER: 60/079664
;; PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081838
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PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
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PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
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PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086023
PRIOR FILING DATE: 1998-05-18
PRIOR APPLICATION NUMBER: 60/086392
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/086486
PRIOR FILING DATE: 1998-05-22
PRIOR APPLICATION NUMBER: 60/087098
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087208
PRIOR FILING DATE: 1998-05-28
PRIOR APPLICATION NUMBER: 60/087609
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/087827
PRIOR FILING DATE: 1998-06-03
PRIOR APPLICATION NUMBER: 60/088025

PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088028
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088033
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PRIOR APPLICATION NUMBER: 60/088167
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088202
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088212
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088217
PRIOR FILING DATE: 1998-06-05
PRIOR APPLICATION NUMBER: 60/088326
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088655
PRIOR FILING DATE: 1998-06-09
PRIOR APPLICATION NUMBER: 60/088722
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088738
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088740
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088811
PRIOR FILING DATE: 1998-06-10
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PRIOR FILING DATE: 1998-06-10
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PRIOR APPLICATION NUMBER: 60/088826
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PRIOR APPLICATION NUMBER: 60/088861
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088863
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/088876
PRIOR FILING DATE: 1998-06-11
PRIOR APPLICATION NUMBER: 60/089090
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089512
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089538
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089598
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089908

Query Match 100.0%; Score 243; DB 14; Length 243;
Best Local Similarity 100.0%; Pred. No. 6,7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPQRRLRLILLLLQLPAPSSASEIPKQKQALRQREVVLDYNGMCLQSPA 60
DB 1 MRPGPASPQRRLRLILLLLQLPAPSSASEIPKQKQALRQREVVLDYNGMCLQSPA 60
QY 61 GVPGRDGPANVIGTGPGRDGFKEGKECELESESESWTPYKQCSMSLYGIDL 120
DB 61 GVPGRDGPANVIGTGPGRDGFKEGKECELESESESWTPYKQCSMSLYGIDL 120
QY 121 GKIAECTTKMRSNALSALVLFSGSLRLKCRNACCQWYFTTNGACSGPLPIEATIIDYDQ 180
DB 121 GKIAECTTKMRSNALSALVLFSGSLRLKCRNACCQWYFTTNGACSGPLPIEATIIDYDQ 180
QY 181 GSPENSTINIHRRSSVAGLCDEGICAGLVDAIVWGTCSDDPKGDASTGMSVSRITIEE 240
DB 181 GSPENSTINIHRRSSVAGLCDEGICAGLVDAIVWGTCSDDPKGDASTGMSVSRITIEE 240

Db 181 GSEPMNSTINIRHTSVEGLCEGIGAGLVDAIWTGCSDPYKGDASTGMNSYSRIITIEE 240
Qy 241 LPK 243
|||
Db 241 LPK 243

RESULT 12

US-10-007-805-514
; Sequence 514, Application US/10007805
; Publication No. US20020150581A1

GENERAL INFORMATION:

APPLICANT: Jiang, Yugu
APPLICANT: Dillon, Devin C.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jiangchun
APPLICANT: Harlocker, Susan L.
APPLICANT: Hepler, William T.
APPLICANT: Henderson, Robert A.
APPLICANT: Fanger, Gary R.
APPLICANT: Vedvick, Thomas S.
APPLICANT: McNeill, Patricia D.
APPLICANT: Durham, Margarita
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
TITLE OF INVENTION: AND DIAGNOSIS OF BREAST CANCER
FILE REFERENCE: 210121.470C10
CURRENT FILING DATE: 2001-12-07
CURRENT FILING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 593
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 514
LENGTH: 243
TYPE: PR1
ORGANISM: Homo sapiens
US-10-007-805-514

Query Match 100.0%; Score 243; DB 14; Length 243;
Best Local Similarity 100.0%; Pred. No. 6.7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRPGPAASPORLRLGILLILLQLPAPSSASEIPKGRKQAKLRQREVVDLYNGMCLOGPA 60
|||
Db 1 MRPGPAASPORLRLGILLILLQLPAPSSASEIPKGRKQAKLRQREVVDLYNGMCLOGPA 60
Qy 61 GVPGRDSPGANVTPGTPIGRDGFGRGEGECLRSFESWTPTNTKQCSWSSLNIGIDL 120
|||
Db 61 GVPGRDSPGANVTPGTPIGRDGFGRGEGECLRSFESWTPTNTKQCSWSSLNIGIDL 120
Qy 121 GRIAEFTFKRMSALRYLFGSLRLKCRNACCOWYFTFNCAECSGPLPIAIIYLDQ 180
|||
Db 121 GRIAEFTFKRMSALRYLFGSLRLKCRNACCOWYFTFNCAECSGPLPIAIIYLDQ 180
Qy 181 GSEPMNSTINIRHTSVEGLCEGIGAGLVDAIWTGCSDPYKGDASTGMNSYSRIITIEE 240
|||
Db 181 GSEPMNSTINIRHTSVEGLCEGIGAGLVDAIWTGCSDPYKGDASTGMNSYSRIITIEE 240
Qy 241 LPK 243
|||
Db 241 LPK 243

RESULT 13

US-10-063-547-122
; Sequence 122, Application US/10063547
; Publication No. US20020182638A1

GENERAL INFORMATION:

APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.

APPLICANT: Matanabe, Colin K.
APPLICANT: Wood, William I.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/063,547
CURRENT FILING DATE: 2002-05-02
Prior Application removed - See file wrapper or Palm
NUMBER OF SEQ ID NOS: 170
SEQ ID NO 122
LENGTH: 243
TYPE: PR1
ORGANISM: Homo Sapien
US-10-063-547-122

Query Match 100.0%; Score 243; DB 14; Length 243;
Best Local Similarity 100.0%; Pred. No. 6.7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MRPGPAASPORLRLGILLILLQLPAPSSASEIPKGRKQAKLRQREVVDLYNGMCLOGPA 60
|||
Db 1 MRPGPAASPORLRLGILLILLQLPAPSSASEIPKGRKQAKLRQREVVDLYNGMCLOGPA 60
Qy 61 GVPGRDSPGANVTPGTPIGRDGFGRGEGECLRSFESWTPTNTKQCSWSSLNIGIDL 120
|||
Db 61 GVPGRDSPGANVTPGTPIGRDGFGRGEGECLRSFESWTPTNTKQCSWSSLNIGIDL 120
Qy 121 GRIAEFTFKRMSALRYLFGSLRLKCRNACCOWYFTFNCAECSGPLPIAIIYLDQ 180
|||
Db 121 GRIAEFTFKRMSALRYLFGSLRLKCRNACCOWYFTFNCAECSGPLPIAIIYLDQ 180
Qy 181 GSEPMNSTINIRHTSVEGLCEGIGAGLVDAIWTGCSDPYKGDASTGMNSYSRIITIEE 240
|||
Db 181 GSEPMNSTINIRHTSVEGLCEGIGAGLVDAIWTGCSDPYKGDASTGMNSYSRIITIEE 240
Qy 241 LPK 243
|||
Db 241 LPK 243

RESULT 14

US-10-174-590-366
; Sequence 366, Application US/10174590
; Publication No. US20030008352A1

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, William K.
APPLICANT: Zhang, Zemin

TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3430R1C42
CURRENT APPLICATION NUMBER: US/10/174,590
CURRENT FILING DATE: 2002-06-18
Prior Application removed - See file wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 366
LENGTH: 243
TYPE: PR1
ORGANISM: Homo Sapien
US-10-174-590-366

Query Match 100.0%; Score 243; DB 15; Length 243;
Best Local Similarity 100.0%; Pred. No. 6.7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Search completed: August 13, 2003, 13:49:38
Job time : 57 secs

OY 1 MRPGPASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALROREVVLDYNGMCLQSPA 60
DB 1 MRPGPASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALROREVVLDYNGMCLQSPA 60
OY 61 GVPGRDGSFGANVIGTGPGRDGFKEGKECECLRESFEESWTPYKQCSMSLNYGIDL 120
DB 61 GVPGRDGSFGANVIGTGPGRDGFKEGKECECLRESFEESWTPYKQCSMSLNYGIDL 120
OY 121 GKIAECTFTKMRNSALRVLEFSGSLRLKCRNACCORWYFTFNGAECGSLPLEATIIYLDQ 180
DB 121 GKIAECTFTKMRNSALRVLEFSGSLRLKCRNACCORWYFTFNGAECGSLPLEATIIYLDQ 180
OY 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWTCSDYPKGDASTGMNSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWTCSDYPKGDASTGMNSVSRITIEE 240
OY 241 LPK 243
DB 241 LPK 243

RESULT 15
US-10-176-758-366
: Sequence 366, Application US/10176758
: Publication No. US20030008353A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Chen, Jian
: APPLICANT: Desnoyers, Luc
: APPLICANT: Goddard, Audrey
: APPLICANT: Goddowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Pan, James
: APPLICANT: Smith, Victoria
: APPLICANT: Watanabe, Colin K.
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zemin
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: TITLE OF INVENTION: ACIDS ENCODING THE SAME
: FILE REFERENCE: P3430R1C104
: CURRENT APPLICATION NUMBER: US/10/176,758
: CURRENT FILING DATE: 2002-06-21
: Prior Application removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 612
: SEQ ID NO 366
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-176-758-366

Query Match 100.0%; Score 243; DB 15; Length 243;
Best Local Similarity 100.0%; Pred. No. 6,7e-214;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPGPASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALROREVVLDYNGMCLQSPA 60
DB 1 MRPGPASPORLRLGLLLLLLLQLPAPSSASEIPKQKQALROREVVLDYNGMCLQSPA 60
OY 61 GVPGRDGSFGANVIGTGPGRDGFKEGKECECLRESFEESWTPYKQCSMSLNYGIDL 120
DB 61 GVPGRDGSFGANVIGTGPGRDGFKEGKECECLRESFEESWTPYKQCSMSLNYGIDL 120
OY 121 GKIAECTFTKMRNSALRVLEFSGSLRLKCRNACCORWYFTFNGAECGSLPLEATIIYLDQ 180
DB 121 GKIAECTFTKMRNSALRVLEFSGSLRLKCRNACCORWYFTFNGAECGSLPLEATIIYLDQ 180
OY 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWTCSDYPKGDASTGMNSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWTCSDYPKGDASTGMNSVSRITIEE 240
OY 241 LPK 243
DB 241 LPK 243

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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:38:13 ; Search time 374 Seconds
(without alignments)
565.500 Million cell updates/sec

Title: US-09-938-418-7

Perfect score: 243
Sequence: 1 MRPOGPASPORTRLGILL.....GDASTGMSVSRILIEELPK 243

Scoring table: OLIGO
Gapop 60.0 , Gapext 60.0

Searched: 5580241 segs, 870357830 residues

Word size : 6

Total number of hits satisfying chosen parameters: 47375

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

Pending_Patents_AA_Main:*

1: /cgn2_6/ptodata/1/paa/PCUTUS_COMB.pep.*
2: /cgn2_6/ptodata/1/paa/US06_COMB.pep.*
3: /cgn2_6/ptodata/1/paa/US07_COMB.pep.*
4: /cgn2_6/ptodata/1/paa/US08_COMB.pep.*
5: /cgn2_6/ptodata/1/paa/US081_COMB.pep.*
6: /cgn2_6/ptodata/1/paa/US082_COMB.pep.*
7: /cgn2_6/ptodata/1/paa/US083_COMB.pep.*
8: /cgn2_6/ptodata/1/paa/US084_COMB.pep.*
9: /cgn2_6/ptodata/1/paa/US085_COMB.pep.*
10: /cgn2_6/ptodata/1/paa/US086_COMB.pep.*
11: /cgn2_6/ptodata/1/paa/US087_COMB.pep.*
12: /cgn2_6/ptodata/1/paa/US088_COMB.pep.*
13: /cgn2_6/ptodata/1/paa/US089_COMB.pep.*
14: /cgn2_6/ptodata/1/paa/US090_COMB.pep.*
15: /cgn2_6/ptodata/1/paa/US091_COMB.pep.*
16: /cgn2_6/ptodata/1/paa/US092_COMB.pep.*
17: /cgn2_6/ptodata/1/paa/US093_COMB.pep.*
18: /cgn2_6/ptodata/1/paa/US094_COMB.pep.*
19: /cgn2_6/ptodata/1/paa/US095_COMB.pep.*
20: /cgn2_6/ptodata/1/paa/US096_COMB.pep.*
21: /cgn2_6/ptodata/1/paa/US097A_COMB.pep.*
22: /cgn2_6/ptodata/1/paa/US097B_COMB.pep.*
23: /cgn2_6/ptodata/1/paa/US098_COMB.pep.*
24: /cgn2_6/ptodata/1/paa/US099A_COMB.pep.*
25: /cgn2_6/ptodata/1/paa/US099B_COMB.pep.*
26: /cgn2_6/ptodata/1/paa/US100_COMB.pep.*
27: /cgn2_6/ptodata/1/paa/US101_COMB.pep.*
28: /cgn2_6/ptodata/1/paa/US102_COMB.pep.*
29: /cgn2_6/ptodata/1/paa/US103_COMB.pep.*
30: /cgn2_6/ptodata/1/paa/US104_COMB.pep.*
31: /cgn2_6/ptodata/1/paa/US60_COMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	243	100.0	243	1	PCT-US02-02781-4559
2	243	100.0	243	1	PCT-US02-12378-514

3	243	100.0	243	23	US-09-834-759-514	Sequence 514, App
4	243 <th>100.0</th> <td>243</td> <td>24</td> <td>US-09-938-418-7</td> <td>Sequence 7, App1</td>	100.0	243	24	US-09-938-418-7	Sequence 7, App1
5	243 <th>100.0</th> <td>243</td> <td>24</td> <td>US-09-946-374-352</td> <td>Sequence 352, App</td>	100.0	243	24	US-09-946-374-352	Sequence 352, App
6	243 <th>100.0</th> <td>243</td> <td>24</td> <td>US-09-946-374-431</td> <td>Sequence 431, App</td>	100.0	243	24	US-09-946-374-431	Sequence 431, App
7	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-041A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-041A-352	Sequence 352, App
8	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-041A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-041A-431	Sequence 431, App
9	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-063A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-063A-352	Sequence 352, App
10	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-063A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-063A-431	Sequence 431, App
11	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-116A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-116A-352	Sequence 352, App
12	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-116A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-116A-431	Sequence 431, App
13	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-117A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-117A-352	Sequence 352, App
14	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-117A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-117A-431	Sequence 431, App
15	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-130A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-130A-352	Sequence 352, App
16	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-130A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-130A-431	Sequence 431, App
17	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-172A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-172A-352	Sequence 352, App
18	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-172A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-172A-431	Sequence 431, App
19	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-485A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-485A-352	Sequence 352, App
20	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-485A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-485A-431	Sequence 431, App
21	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-746A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-746A-352	Sequence 352, App
22	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-746A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-746A-431	Sequence 431, App
23	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-768A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-768A-352	Sequence 352, App
24	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-768A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-768A-431	Sequence 431, App
25	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-818A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-818A-352	Sequence 352, App
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27	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-856A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-006-856A-352	Sequence 352, App
28	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-856A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-006-856A-431	Sequence 431, App
29	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-006-867-1122</td> <td>Sequence 1122, App</td>	100.0	243	26	US-10-006-867-1122	Sequence 1122, App
30	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-007-194A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-007-194A-352	Sequence 352, App
31	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-007-194A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-007-194A-431	Sequence 431, App
32	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-007-236A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-007-236A-352	Sequence 352, App
33	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-007-236A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-007-236A-431	Sequence 431, App
34	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-007-805-514</td> <td>Sequence 514, App</td>	100.0	243	26	US-10-007-805-514	Sequence 514, App
35	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-671A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-011-671A-352	Sequence 352, App
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37	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-692A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-011-692A-352	Sequence 352, App
38	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-692A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-011-692A-431	Sequence 431, App
39	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-795A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-011-795A-352	Sequence 352, App
40	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-795A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-011-795A-431	Sequence 431, App
41	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-795B-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-011-795B-352	Sequence 352, App
42	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-795B-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-011-795B-431	Sequence 431, App
43	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-833A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-011-833A-352	Sequence 352, App
44	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-011-833A-431</td> <td>Sequence 431, App</td>	100.0	243	26	US-10-011-833A-431	Sequence 431, App
45	243 <th>100.0</th> <td>243</td> <td>26</td> <td>US-10-012-064A-352</td> <td>Sequence 352, App</td>	100.0	243	26	US-10-012-064A-352	Sequence 352, App

ALIGNMENTS

RESULT 1
PCT-US02-02781-4559
Sequence 4559, Application PC/TUS0202781
GENERAL INFORMATION:
APPLICANT: Corixa Corporation
APPLICANT: Benson, Darin R.
APPLICANT: Kalos, Michael D.
APPLICANT: Lodes, Michael J.
APPLICANT: Persing, David H.
APPLICANT: Hepler, William T.
APPLICANT: Jiang, Yugu
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
FILE REFERENCE: 210121.566PC
CURRENT APPLICATION NUMBER: PCT/US02/02781
CURRENT FILING DATE: 2002-01-30
NUMBER OF SEQ ID NOS: 4560
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4559
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
PCT-US02-02781-4559
Query Match 100.0%; Score 243; DB 1; Length 243;

Best Local Similarity 100.0%; Pred. No. 2.5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPOGPASPOLRLKGLLLLLQLPAPSSASEIPKOKAOLRQREVVDLYNGMCIQSPA 60
DB 1 MRPOGPASPOLRLKGLLLLLQLPAPSSASEIPKOKAOLRQREVVDLYNGMCIQSPA 60

QY 61 GVPGRDGSFGANVLPGTGIPGRDGFKEGKECECLRESEESWTPNYKOCSSSLNYGIDL 120
DB 61 GVPGRDGSFGANVLPGTGIPGRDGFKEGKECECLRESEESWTPNYKOCSSSLNYGIDL 120

QY 121 GKIAECTTKMRNSALRVLFSGSLRLKCRNACCORWFTFTNGACSGPLPIEAIITYDQ 180
DB 121 GKIAECTTKMRNSALRVLFSGSLRLKCRNACCORWFTFTNGACSGPLPIEAIITYDQ 180

QY 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240

QY 241 LPK 243
DB 241 LPK 243

RESULT 2

PCT-US02-12378-514
; Sequence 514, Application PC/TUS0212378
; GENERAL INFORMATION:
; APPLICANT: Houghton, Raymond L.
; APPLICANT: Sleath, Paul R.
; APPLICANT: Persing, David H.
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; APPLICANT: Fanger, Gary R.
; APPLICANT: Vedick, Thomas S.
; APPLICANT: McNeill, Patricia D.
; APPLICANT: Durham, Margarita
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.47003PC
; CURRENT APPLICATION NUMBER: PCT/US02/12378
; CURRENT FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 514
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US02-12378-514

Query Match 100.0%; Score 243; DB 1; Length 243;

Best Local Similarity 100.0%; Pred. No. 2.5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPOGPASPOLRLKGLLLLLQLPAPSSASEIPKOKAOLRQREVVDLYNGMCIQSPA 60
DB 1 MRPOGPASPOLRLKGLLLLLQLPAPSSASEIPKOKAOLRQREVVDLYNGMCIQSPA 60

QY 61 GVPGRDGSFGANVLPGTGIPGRDGFKEGKECECLRESEESWTPNYKOCSSSLNYGIDL 120
DB 61 GVPGRDGSFGANVLPGTGIPGRDGFKEGKECECLRESEESWTPNYKOCSSSLNYGIDL 120

QY 121 GKIAECTTKMRNSALRVLFSGSLRLKCRNACCORWFTFTNGACSGPLPIEAIITYDQ 180
DB 121 GKIAECTTKMRNSALRVLFSGSLRLKCRNACCORWFTFTNGACSGPLPIEAIITYDQ 180

QY 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240

DB 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 3

US-09-834-759-514
; Sequence 514, Application US/09834759
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yugu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; APPLICANT: Henderson, Robert A.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.470C9
; CURRENT APPLICATION NUMBER: US/09/834,759
; CURRENT FILING DATE: 2001-04-13
; NUMBER OF SEQ ID NOS: 547
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 514
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-834-759-514

Query Match 100.0%; Score 243; DB 23; Length 243;

Best Local Similarity 100.0%; Pred. No. 2.5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPOGPASPOLRLKGLLLLLQLPAPSSASEIPKOKAOLRQREVVDLYNGMCIQSPA 60
DB 1 MRPOGPASPOLRLKGLLLLLQLPAPSSASEIPKOKAOLRQREVVDLYNGMCIQSPA 60

QY 61 GVPGRDGSFGANVLPGTGIPGRDGFKEGKECECLRESEESWTPNYKOCSSSLNYGIDL 120
DB 61 GVPGRDGSFGANVLPGTGIPGRDGFKEGKECECLRESEESWTPNYKOCSSSLNYGIDL 120

QY 121 GKIAECTTKMRNSALRVLFSGSLRLKCRNACCORWFTFTNGACSGPLPIEAIITYDQ 180
DB 121 GKIAECTTKMRNSALRVLFSGSLRLKCRNACCORWFTFTNGACSGPLPIEAIITYDQ 180

QY 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
DB 181 GSPEMNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240

QY 241 LPK 243
DB 241 LPK 243

RESULT 4

US-09-938-418-7
; Sequence 7, Application US/09938418
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi J.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul
; APPLICANT: Gurney, Austin L.
; APPLICANT: Polakis, Paul
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; APPLICANT: Wu, Thomas D.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
; FILE REFERENCE: P5009R1
; CURRENT APPLICATION NUMBER: US/09/938,418

;; CURRENT FILING DATE: 2001-08-23
;; PRIOR APPLICATION NUMBER: 60/081,071
;; PRIOR FILING DATE: 1998-04-07
;; PRIOR APPLICATION NUMBER: 60/085,697
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/097,022
;; PRIOR FILING DATE: 1998-08-18
;; PRIOR APPLICATION NUMBER: 60/101,922
;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/103,679
;; PRIOR FILING DATE: 1998-10-08
;; PRIOR APPLICATION NUMBER: PCT/US99/05028
;; PRIOR FILING DATE: 1999-03-08
;; PRIOR APPLICATION NUMBER: PCT/US99/12252
;; PRIOR FILING DATE: 1999-06-02
;; PRIOR APPLICATION NUMBER: PCT/US99/20111
;; PRIOR FILING DATE: 1999-09-01
;; PRIOR APPLICATION NUMBER: PCT/US99/28565
;; PRIOR FILING DATE: 1999-12-02
;; PRIOR APPLICATION NUMBER: PCT/US00/04342
;; PRIOR FILING DATE: 2000-02-18
;; PRIOR APPLICATION NUMBER: PCT/US00/04341
;; PRIOR FILING DATE: 2000-02-18
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: 2000-03-02
;; PRIOR APPLICATION NUMBER: PCT/US00/05841
;; PRIOR FILING DATE: 2000-03-02
;; PRIOR APPLICATION NUMBER: PCT/US00/08439
;; PRIOR FILING DATE: 2000-03-30
;; PRIOR APPLICATION NUMBER: PCT/US00/14042
;; PRIOR FILING DATE: 2000-05-22
;; PRIOR APPLICATION NUMBER: PCT/US00/23328
;; PRIOR FILING DATE: 2000-08-24
;; PRIOR APPLICATION NUMBER: PCT/US00/32678
;; PRIOR FILING DATE: 2000-12-01
;; PRIOR APPLICATION NUMBER: PCT/US01/06520
;; PRIOR FILING DATE: 2001-02-28
;; PRIOR APPLICATION NUMBER: PCT/US01/17800
;; PRIOR FILING DATE: 2001-06-01
;; PRIOR APPLICATION NUMBER: PCT/US01/19692
;; PRIOR FILING DATE: 2001-06-20
;; PRIOR APPLICATION NUMBER: PCT/US01/21066
;; PRIOR FILING DATE: 2001-06-29
;; PRIOR APPLICATION NUMBER: PCT/US01/21735
;; PRIOR FILING DATE: 2001-07-09
;; NUMBER OF SEQ ID NOS: 10
;; SEQ. ID NO 7
;; LENGTH: 243
;; TYPE: PRT
;; ORGANISM: Homo Sapien
US-09-938-418-7

Query Match 100.0%; Score 243; DB 24; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
DB 1 MRPOGPAASPORLRLGLLLILLDLPAVSASSEIPKQKQKQKQREVVDLYNGKCLQGPA 60
DB 1 MRPOGPAASPORLRLGLLLILLDLPAVSASSEIPKQKQKQKQREVVDLYNGKCLQGPA 60
QY 61 GVGGRDSSPGANYIPGPGIPGRDGFGEKGECELRSEFSWPNYQCSMSSLNTVLDL 120
DB 61 GVGGRDSSPGANYIPGPGIPGRDGFGEKGECELRSEFSWPNYQCSMSSLNTVLDL 120
QY 121 GKTAECTFTMRNSALRVLFSGSLRLKCHNACQQRNYFTFNAGCSGPIREALIYLDQ 180
DB 121 GKTAECTFTMRNSALRVLFSGSLRLKCHNACQQRNYFTFNAGCSGPIREALIYLDQ 180
QY 181 GSEPMNSTIHIHTSSVEGLCEGIGAGLVAVIWTGTCSDYPKGDASTGNNVSRIITIEE 240
DB 181 GSEPMNSTIHIHTSSVEGLCEGIGAGLVAVIWTGTCSDYPKGDASTGNNVSRIITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 5
US-09-946-374-352
;; Sequence 352, Application US/09946374
;; GENERAL INFORMATION:
;; APPLICANT: Baker, Kevin P.
;; APPLICANT: Botstein, David
;; APPLICANT: Desnoyers, Luc
;; APPLICANT: Eaton, Dan L.
;; APPLICANT: Ferrara, Napoleone
;; APPLICANT: Fong, Sherman
;; APPLICANT: Gao, Wei-Qiang
;; APPLICANT: Goddard, Audrey
;; APPLICANT: Godowski, Paul J.
;; APPLICANT: Grimaldi, Christopher J.
;; APPLICANT: Hillyan, Austin L.
;; APPLICANT: Hillyan, Kenneth J.
;; APPLICANT: Pan, James
;; APPLICANT: Paoul, Nicholas F.
;; APPLICANT: Roy, Margaret Ann
;; APPLICANT: Smith, Victoria
;; APPLICANT: Stewart, Timothy A.
;; APPLICANT: Tumas, Daniel
;; APPLICANT: Watanabe, Colin K.
;; APPLICANT: Williams, P. Mickey
;; APPLICANT: Wood, William I.
;; TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2830P1C1
;; CURRENT APPLICATION NUMBER: US/09/946,374
;; CURRENT FILING DATE: 2001-09-04
;; PRIOR APPLICATION NUMBER: 60/098716
;; PRIOR FILING DATE: 1998-09-01
;; PRIOR APPLICATION NUMBER: 60/098723
;; PRIOR FILING DATE: 1998-09-01
;; PRIOR APPLICATION NUMBER: 60/098749
;; PRIOR FILING DATE: 1998-09-01
;; PRIOR APPLICATION NUMBER: 60/098750
;; PRIOR FILING DATE: 1998-09-01
;; PRIOR APPLICATION NUMBER: 60/098803
;; PRIOR FILING DATE: 1998-09-02
;; PRIOR APPLICATION NUMBER: 60/098821
;; PRIOR FILING DATE: 1998-09-02
;; PRIOR APPLICATION NUMBER: 60/098843
;; PRIOR FILING DATE: 1998-09-02
;; PRIOR APPLICATION NUMBER: 60/099536
;; PRIOR FILING DATE: 1998-09-09
;; PRIOR APPLICATION NUMBER: 60/099596
;; PRIOR FILING DATE: 1998-09-09
;; PRIOR APPLICATION NUMBER: 60/099598
;; PRIOR FILING DATE: 1998-09-09
;; PRIOR APPLICATION NUMBER: 60/099602
;; PRIOR FILING DATE: 1998-09-09
;; PRIOR APPLICATION NUMBER: 60/099642
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;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099754
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099763
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099792
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099808
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099812
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099815
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/099816
;; PRIOR FILING DATE: 1998-09-10
;; PRIOR APPLICATION NUMBER: 60/100385

Db 121 GKIAECTFKRNSALRVLFSGLRLKCNACCORNYFTFNAGCSGPLEIEAIIYLDQ 180.
QY 181 GSPENSTINIRHTSVSGLEGIGAGLVDAIIVWGTCSPDKGDASTGNSVSRIITEE 240
Db 181 GSPENSTINIRHTSVSGLEGIGAGLVDAIIVWGTCSPDKGDASTGNSVSRIITEE 240
QY 241 LPK 243
Db 241 LPK 243

RESULT 6
US-09-946-374-431
Sequence 431, Application US/09946374
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Wei-Qiang
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Matanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830PICI
CURRENT APPLICATION NUMBER: US/09/946,374
CURRENT FILING DATE: 2001-09-04
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098723
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098749
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098750
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098803
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/098821
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/098843
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/099536
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099596
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099598
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099602
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099642
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099741
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099754
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099763
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099792
PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 60/099808
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099815
PRIOR FILING DATE: 1998-09-10
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PRIOR FILING DATE: 1998-09-10
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PRIOR FILING DATE: 1998-09-17
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PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100930
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101014
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101068
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101071
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101279
PRIOR FILING DATE: 1998-09-22
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PRIOR FILING DATE: 1998-09-23
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PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101474
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101475
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101476
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101477
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101479
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101741
PRIOR FILING DATE: 1998-09-24
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PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101915
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/102207

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; PRIOR FILING DATE: 1998-09-29
; PRIOR APPLICATION NUMBER: 60/102240
; PRIOR FILING DATE: 1998-09-29
; PRIOR APPLICATION NUMBER: 60/102307
; PRIOR FILING DATE: 1998-09-29
; PRIOR APPLICATION NUMBER: 60/102330
; PRIOR FILING DATE: 1998-09-29
; PRIOR APPLICATION NUMBER: 60/102331
; PRIOR FILING DATE: 1998-09-29
; PRIOR APPLICATION NUMBER: 60/102484
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: 60/102487
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: 60/102570
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: 60/102571
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: 60/102684
; PRIOR FILING DATE: 1998-10-01
; PRIOR APPLICATION NUMBER: 60/102687
; PRIOR FILING DATE: 1998-10-01
; PRIOR APPLICATION NUMBER: 60/102965
; PRIOR FILING DATE: 1998-10-02
; PRIOR APPLICATION NUMBER: 60/103258
; PRIOR FILING DATE: 1998-10-06
; PRIOR APPLICATION NUMBER: 60/103314
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103315
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103328
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103395
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103396
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103401
; PRIOR FILING DATE: 1998-10-07
; PRIOR APPLICATION NUMBER: 60/103449
; PRIOR FILING DATE: 1998-10-06
; PRIOR APPLICATION NUMBER: 60/103633
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/103678
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/103679
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/103711
; PRIOR FILING DATE: 1998-10-08
; PRIOR APPLICATION NUMBER: 60/104257
; PRIOR FILING DATE: 1998-10-14
; PRIOR APPLICATION NUMBER: 60/104987
; PRIOR FILING DATE: 1998-10-20
; PRIOR APPLICATION NUMBER: 60/105000
; PRIOR FILING DATE: 1998-10-20
; PRIOR APPLICATION NUMBER: 60/105002
; PRIOR FILING DATE: 1998-10-20
; PRIOR APPLICATION NUMBER: 60/105104
; PRIOR FILING DATE: 1998-10-21
; PRIOR APPLICATION NUMBER: 60/105169
; PRIOR FILING DATE: 1998-10-22
; PRIOR APPLICATION NUMBER: 60/105266
; PRIOR FILING DATE: 1998-10-22
; PRIOR APPLICATION NUMBER: 60/105693
; PRIOR FILING DATE: 1998-10-26
; PRIOR APPLICATION NUMBER: 60/105694
; PRIOR FILING DATE: 1998-10-26
; PRIOR APPLICATION NUMBER: 60/105807
; PRIOR FILING DATE: 1998-10-27

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Query Match 100.0%; Score 243; DB 24; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGPASPORLRGLLLILLQLPAPSSASEIPKQKRAQLRQREVVLDLYNGMCLQGPA 60

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Db |||||
1 MRPGPASPORLRGLLLILLQLPAPSSASEIPKQKRAQLRQREVVLDLYNGMCLQGPA 60
QY 61 GVPGRDGSFGANVIGTPIPGRDFKGGKGCLEESFEESWTPTYKOCSSSLWYGLD 120
Db 61 GVPGRDGSFGANVIGTPIPGRDFKGGKGCLEESFEESWTPTYKOCSSSLWYGLD 120
QY 121 GKIACTFTKMSNSALRYLFGSLRLKCRNACCORWFTFTFGACSGPLPIEATITTYDQ 180
Db 121 GKIACTFTKMSNSALRYLFGSLRLKCRNACCORWFTFTFGACSGPLPIEATITTYDQ 180
QY 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIWWGTCSDPYKGPASTGMSVSRITIEE 240
Db 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIWWGTCSDPYKGPASTGMSVSRITIEE 240
QY 241 LPK 243
Db 241 LPK 243

```

```

RESULT 7
US-10-006-041A-352
; Sequence 352, Application US/10006041A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Baton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830PIC8
; CURRENT APPLICATION NUMBER: US/10/006, 041A
; CURRENT FILING DATE: 2001-12-06
; Prior Application removed - See file Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 352
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-006-041A-352

```

```

Query Match 100.0%; Score 243; DB 26; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MRPGPASPORLRGLLLILLQLPAPSSASEIPKQKRAQLRQREVVLDLYNGMCLQGPA 60
Db 1 MRPGPASPORLRGLLLILLQLPAPSSASEIPKQKRAQLRQREVVLDLYNGMCLQGPA 60
QY 61 GVPGRDGSFGANVIGTPIPGRDFKGGKGCLEESFEESWTPTYKOCSSSLWYGLD 120
Db 61 GVPGRDGSFGANVIGTPIPGRDFKGGKGCLEESFEESWTPTYKOCSSSLWYGLD 120
QY 121 GKIACTFTKMSNSALRYLFGSLRLKCRNACCORWFTFTFGACSGPLPIEATITTYDQ 180
Db 121 GKIACTFTKMSNSALRYLFGSLRLKCRNACCORWFTFTFGACSGPLPIEATITTYDQ 180
QY 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIWWGTCSDPYKGPASTGMSVSRITIEE 240
Db 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIWWGTCSDPYKGPASTGMSVSRITIEE 240
QY 241 LPK 243
Db 241 LPK 243

```

```
Db      241 LPK 243

RESULT 8
US-10-006-041A-431
: Sequence 431, Application US/10006041A
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan I.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: P2830P1C3
: CURRENT APPLICATION NUMBER: US/10/006, 041A
: PRIOR FILING DATE: 2001-12-06
: PRIOR APPLICATION removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 477
: SEQ ID NO 431
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-006-041A-431

Query Match      100.0%; Score 243; DB 26; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRPGPASPQRRLGILLILLQLPAPSSASEIRKQKQALRQREVVDLYNGMCIQSPA 60
Db      1 MRPGPASPQRRLGILLILLQLPAPSSASEIRKQKQALRQREVVDLYNGMCIQSPA 60
QY      61 GVPGRDSSPGANVTPGTGIRGDRGFKGEGECLRESFEESWTNYKQCSWSLNYGIDL 120
Db      61 GVPGRDSSPGANVTPGTGIRGDRGFKGEGECLRESFEESWTNYKQCSWSLNYGIDL 120
QY      121 GKIAECTFTKRSNSALRVLFSGSLRLKCRNACCQRMWFTFNAGCSGPLTEAIYYDQ 180
Db      121 GKIAECTFTKRSNSALRVLFSGSLRLKCRNACCQRMWFTFNAGCSGPLTEAIYYDQ 180
QY      181 GSPEMNSTINIHRTSVEGLCGEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRIITEE 240
Db      181 GSPEMNSTINIHRTSVEGLCGEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRIITEE 240
QY      241 LPK 243
Db      241 LPK 243

RESULT 9
US-10-006-063A-352
: Sequence 352, Application US/10006063A
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan I.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: P2830P1C3
: CURRENT APPLICATION NUMBER: US/10/006, 063A
: PRIOR FILING DATE: 2002-03-15
: PRIOR APPLICATION removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 477
: SEQ ID NO 431
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-006-063A-431

APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: P2830P1C3
: CURRENT APPLICATION NUMBER: US/10/006, 063A
: PRIOR FILING DATE: 2002-03-15
: PRIOR APPLICATION removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 477
: SEQ ID NO 352
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo sapiens
US-10-006-063A-352

Query Match      100.0%; Score 243; DB 26; Length 243;
Best Local Similarity 100.0%; Pred. No. 2.5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRPGPASPQRRLGILLILLQLPAPSSASEIRKQKQALRQREVVDLYNGMCIQSPA 60
Db      1 MRPGPASPQRRLGILLILLQLPAPSSASEIRKQKQALRQREVVDLYNGMCIQSPA 60
QY      61 GVPGRDSSPGANVTPGTGIRGDRGFKGEGECLRESFEESWTNYKQCSWSLNYGIDL 120
Db      61 GVPGRDSSPGANVTPGTGIRGDRGFKGEGECLRESFEESWTNYKQCSWSLNYGIDL 120
QY      121 GKIAECTFTKRSNSALRVLFSGSLRLKCRNACCQRMWFTFNAGCSGPLTEAIYYDQ 180
Db      121 GKIAECTFTKRSNSALRVLFSGSLRLKCRNACCQRMWFTFNAGCSGPLTEAIYYDQ 180
QY      181 GSPEMNSTINIHRTSVEGLCGEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRIITEE 240
Db      181 GSPEMNSTINIHRTSVEGLCGEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRIITEE 240
QY      241 LPK 243
Db      241 LPK 243

RESULT 10
US-10-006-063A-431
: Sequence 431, Application US/10006063A
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Botstein, David
: APPLICANT: Desnoyers, Luc
: APPLICANT: Eaton, Dan I.
: APPLICANT: Ferrara, Napoleone
: APPLICANT: Fong, Sherman
: APPLICANT: Gao, Wei-Qiang
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Grimaldi, Christopher J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Hillan, Kenneth J.
: APPLICANT: Pan, James
: APPLICANT: Paoni, Nicholas F.
: TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
: FILE REFERENCE: P2830P1C3
: CURRENT APPLICATION NUMBER: US/10/006, 063A
: PRIOR FILING DATE: 2002-03-15
: PRIOR APPLICATION removed - See File Wrapper or Palm
: NUMBER OF SEQ ID NOS: 477
: SEQ ID NO 431
: LENGTH: 243
: TYPE: PRT
: ORGANISM: Homo Sapien
US-10-006-063A-431
```

Query Match 100.0%; Score 243; DB 26; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPORLRLILLILLQLLPAPSSASEIPKGRKAKOREVVDLYGMCLQGPA 60
DB 1 MRPGPASPORLRLILLILLQLLPAPSSASEIPKGRKAKOREVVDLYGMCLQGPA 60
QY 61 GVPGRDGPANVIGTGTGIPGRDGFKEGEGECLRESESESTPYNYKQCSWMSLVYIDL 120
DB 61 GVPGRDGPANVIGTGTGIPGRDGFKEGEGECLRESESESTPYNYKQCSWMSLVYIDL 120
QY 121 GRIACCTTKMNSNALAVLPSGSLRLKCRNACCRRWTFTEFGACSGPLPIEALITYIDQ 180
DB 121 GRIACCTTKMNSNALAVLPSGSLRLKCRNACCRRWTFTEFGACSGPLPIEALITYIDQ 180
QY 181 GSPEMNSTINIRHTSSVEGLCEGIGAGLVDAIVWGTCSDDYKKGASTGWSNVSRIITE 240
DB 181 GSPEMNSTINIRHTSSVEGLCEGIGAGLVDAIVWGTCSDDYKKGASTGWSNVSRIITE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 11
US-10-006-116A-352
; Sequence 352, Application US/10006116A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Goddard, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C15
; CURRENT APPLICATION NUMBER: US/10/006,116A
; PRIOR FILING DATE: 2001-12-16
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098750
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098803
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098821
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098843
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/099536
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099596
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099598
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099602
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099642
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099741

; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099754
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099763
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099792
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099808
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099812
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099815
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099816
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/100385
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100388
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100390
; PRIOR FILING DATE: 1998-09-15
; PRIOR APPLICATION NUMBER: 60/100584
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100627
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100661
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100662
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100664
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: 60/100683
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100684
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100710
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100711
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100848
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/100849
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/100919
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100930
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/101014
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/101068
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/101071
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/101279
; PRIOR FILING DATE: 1998-09-22
; PRIOR APPLICATION NUMBER: 60/101471
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: 60/101472
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: 60/101474
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: 60/101475
; PRIOR FILING DATE: 1998-09-23
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; PRIOR APPLICATION NUMBER: 60/101477
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: 60/101479
; PRIOR FILING DATE: 1998-09-23
; PRIOR APPLICATION NUMBER: 60/101738
; PRIOR FILING DATE: 1998-09-24
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;; PRIOR FILING DATE: 1998-09-24
;; PRIOR APPLICATION NUMBER: 60/101916
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;; PRIOR APPLICATION NUMBER: 60/102207
;; PRIOR FILING DATE: 1998-09-29
;; PRIOR APPLICATION NUMBER: 60/102240
;; PRIOR FILING DATE: 1998-09-29
;; PRIOR APPLICATION NUMBER: 60/102307
;; PRIOR FILING DATE: 1998-09-29
;; PRIOR APPLICATION NUMBER: 60/102330
;; PRIOR FILING DATE: 1998-09-29
;; PRIOR APPLICATION NUMBER: 60/102331
;; PRIOR FILING DATE: 1998-09-29
;; PRIOR APPLICATION NUMBER: 60/102484
;; PRIOR FILING DATE: 1998-09-30
;; PRIOR APPLICATION NUMBER: 60/102487
;; PRIOR FILING DATE: 1998-09-30
;; PRIOR APPLICATION NUMBER: 60/102570
;; PRIOR FILING DATE: 1998-09-30
;; PRIOR APPLICATION NUMBER: 60/102571
;; PRIOR FILING DATE: 1998-09-30
;; PRIOR APPLICATION NUMBER: 60/102684
;; PRIOR FILING DATE: 1998-10-01
;; PRIOR APPLICATION NUMBER: 60/102687
;; PRIOR FILING DATE: 1998-10-01
;; PRIOR APPLICATION NUMBER: 60/102965
;; PRIOR FILING DATE: 1998-10-02
;; PRIOR APPLICATION NUMBER: 60/103258
;; PRIOR FILING DATE: 1998-10-06
;; PRIOR APPLICATION NUMBER: 60/103314
;; PRIOR FILING DATE: 1998-10-07
;; PRIOR APPLICATION NUMBER: 60/103315
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;; PRIOR FILING DATE: 1998-10-21
;; PRIOR APPLICATION NUMBER: 60/105169
;; PRIOR FILING DATE: 1998-10-22
;; PRIOR APPLICATION NUMBER: 60/105266
;; PRIOR FILING DATE: 1998-10-22
;; PRIOR APPLICATION NUMBER: 60/105693
;; PRIOR FILING DATE: 1998-10-26
;; PRIOR APPLICATION NUMBER: 60/105694
;; PRIOR FILING DATE: 1998-10-26
;; PRIOR APPLICATION NUMBER: 60/105807

;; PRIOR FILING DATE: 1998-10-27
;; PRIOR APPLICATION NUMBER: 60/105881
;; PRIOR FILING DATE: 1998-10-27
;; PRIOR APPLICATION NUMBER: 60/105882
;; PRIOR FILING DATE: 1998-10-27
;; PRIOR APPLICATION NUMBER: 60/106023
;; PRIOR FILING DATE: 1998-10-28
;; PRIOR APPLICATION NUMBER: 60/106029

Query Match 100.0%; Score 243; DB 26; Length 243;
Best Local Similarity 100.0%; Pred. No. 2,5e-210;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPORLGLLILLLILLOLPAPSSASEIRKGRKQALRQREVVDLYNGCIGPA 60
|||
Db 1 MRPGPASPORLGLLILLLILLOLPAPSSASEIRKGRKQALRQREVVDLYNGCIGPA 60
|||
QY 61 GVPGRDSPGANVIGTPIGTPIGRDGFYGEKECECLRESFEESWTPNYKQCSWSSLYNGIDL 120
|||
Db 61 GVPGRDSPGANVIGTPIGTPIGRDGFYGEKECECLRESFEESWTPNYKQCSWSSLYNGIDL 120
|||
QY 121 GKIAECTFTKRSNSALRVLFSSGLRLKCRNACCORWTFYNGAECGPILEAIYYLDQ 180
|||
Db 121 GKIAECTFTKRSNSALRVLFSSGLRLKCRNACCORWTFYNGAECGPILEAIYYLDQ 180
|||
QY 181 GSPENNSTINIHRTSSVEGLCEGIGAGLYDVAIIVGTCSDPKDASTGNMVSRIITIEE 240
|||
Db 181 GSPENNSTINIHRTSSVEGLCEGIGAGLYDVAIIVGTCSDPKDASTGNMVSRIITIEE 240
|||
QY 241 LPK 243
|||
Db 241 LPK 243

RESULT 12
US-10-006-116A-431
; Sequence 431, Application US/10006116A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnuyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paout, Nicholas F.
; TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C15
; CURRENT APPLICATION NUMBER: US/10/006,116A
; PRIOR APPLICATION NUMBER: 2001-12-16
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098750
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098803
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098821
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098843
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/099536
; PRIOR FILING DATE: 1998-09-09

Db 121 GKIACTFTKRSNSALVLSGSLRLKRNACCORWFTFNGAGCSGPILEATITVLDQ 180
QY 181 GSPENNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGWSVSRITIEE 240
Db 181 GSPENNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGWSVSRITIEE 240
QY 241 LPK 243
Db 241 LPK 243

RESULT 15

US-10-006-130A-352

; Sequence 352, Application US/10006130A

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gutney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Pan, James
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C7
; CURRENT APPLICATION NUMBER: US/10/006,130A
; PRIOR APPLICATION REMOVED - See file wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 352
; LENGTH: 243
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-006-130A-352

Query Match

100.0%; Score 243; DB 26; Length 243;

Best Local Similarity 100.0%; Pred. No. 2.5e-210;

Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPOGPASPORLRLGLILLILLQLPAPSSASEIPKQKQALRQREVVDLYNGMCIQGPA 60
Db 1 MRPOGPASPORLRLGLILLILLQLPAPSSASEIPKQKQALRQREVVDLYNGMCIQGPA 60
QY 61 GVPGRDGSFGANVIGTGTGTGRDGFKEKGECLRESFEESWTPTNYKOCSSSLNYGIDL 120
Db 61 GVPGRDGSFGANVIGTGTGTGRDGFKEKGECLRESFEESWTPTNYKOCSSSLNYGIDL 120
QY 121 GKIACTFTKRSNSALVLSGSLRLKRNACCORWFTFNGAGCSGPILEATITVLDQ 180
Db 121 GKIACTFTKRSNSALVLSGSLRLKRNACCORWFTFNGAGCSGPILEATITVLDQ 180
QY 181 GSPENNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGWSVSRITIEE 240
Db 181 GSPENNSTINIHRTSSVGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGWSVSRITIEE 240
QY 241 LPK 243
Db 241 LPK 243

Search completed: August 13, 2003, 13:48:06
Job time : 375 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: August 13, 2003, 13:38:43 ; Search time 21 Seconds
(without alignments)
252.569 Million cell updates/sec

Title: US-09-938-418-7

Perfect score: 243
Sequence: 1 MRQGPASPRRLGILL...GDASTGMSVSRITIELPK 243

Scoring table: OLIGO

Gapop 60.0 , Gapext 60.0

Searched: 105250 seqs, 2182699 residues

Word size : 6

Total number of hits satisfying chosen parameters: 763

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Listing first 45 summaries

Database :

Pending_Patents_AA_New:*
1: /cgn2_6/prodata/2/paa/PCT_NEW_COMB.pep:*
2: /cgn2_6/prodata/2/paa/US06_NEW_COMB.pep:*
3: /cgn2_6/prodata/2/paa/US07_NEW_COMB.pep:*
4: /cgn2_6/prodata/2/paa/US08_NEW_COMB.pep:*
5: /cgn2_6/prodata/2/paa/US09_NEW_COMB.pep:*
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7: /cgn2_6/prodata/2/paa/US60_NEW_COMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	170	70.0	243	1 PCT-US02-29560A-203	Sequence 203, App
2	9	3.7	80	US-10-603-113-23275	Sequence 23275, A
3	9	3.7	996	US-10-464-368-85	Sequence 85, Appl
4	9	3.7	1164	US-60-487-610-2411	Sequence 2411, Ap
5	9	3.7	1164	US-60-485-450-1525	Sequence 1525, Ap
6	9	3.7	1284	US-60-487-610-2407	Sequence 2407, Ap
7	9	3.7	1284	US-60-485-450-1521	Sequence 1521, Ap
8	9	3.7	1464	PCT-US02-18638A-36	Sequence 36, Appl
9	9	3.7	1464	US-10-291-265-243	Sequence 243, App
10	9	3.7	1464	US-60-487-610-2409	Sequence 2409, App
11	9	3.7	1464	US-60-485-450-1523	Sequence 1523, Ap
12	8	3.3	82	US-10-603-113-21887	Sequence 21887, A
13	8	3.3	178	US-60-487-610-2653	Sequence 2653, Ap
14	8	3.3	178	US-60-485-450-1694	Sequence 1694, Ap
15	8	3.3	181	US-08-867-587B-34	Sequence 34, Appl
16	8	3.3	234	US-08-867-587B-4	Sequence 4, Appl
17	8	3.3	234	US-08-867-587B-7	Sequence 7, Appl
18	8	3.3	234	US-08-867-587B-19	Sequence 19, Appl
19	8	3.3	234	US-08-867-587B-22	Sequence 22, Appl
20	8	3.3	237	US-08-867-587B-13	Sequence 13, Appl
21	8	3.3	237	US-08-867-587B-16	Sequence 16, Appl
22	8	3.3	254	US-10-408-765A-509	Sequence 509, App
23	8	3.3	265	US-08-867-587B-1	Sequence 1, Appl
24	8	3.3	265	US-08-867-587B-37	Sequence 37, Appl
25	8	3.3	366	US-10-408-765A-492	Sequence 492, Appl
26	8	3.3	486	US-60-487-610-10	Sequence 10, Appl

27	8	3.3	652	US-10-408-765A-1422	Sequence 1422, Ap
28	8	3.3	671	US-60-485-450-1335	Sequence 1335, Ap
29	8	3.3	828	US-60-487-610-2652	Sequence 2652, Ap
30	8	3.3	828	US-60-485-450-1693	Sequence 1693, Ap
31	8	3.3	893	US-10-369-072-38	Sequence 38, Appl
32	8	3.3	918	US-60-487-610-2650	Sequence 2650, Ap
33	8	3.3	918	US-60-485-450-1691	Sequence 1691, Ap
34	8	3.3	984	US-60-487-610-2168	Sequence 2168, Ap
35	8	3.3	984	US-60-485-450-1382	Sequence 1382, Ap
36	8	3.3	984	US-60-490-890-209	Sequence 209, App
37	8	3.3	987	US-60-487-610-2242	Sequence 2242, Ap
38	8	3.3	987	US-60-485-450-1437	Sequence 1437, Ap
39	8	3.3	1019	US-60-487-610-2651	Sequence 2651, Ap
40	8	3.3	1019	US-60-485-450-1692	Sequence 1692, Ap
41	8	3.3	1388	US-10-408-765A-1718	Sequence 1718, Ap
42	8	3.3	1416	US-60-490-890-773	Sequence 773, App
43	8	3.3	1472	US-60-490-890-769	Sequence 769, App
44	8	3.3	1475	US-60-490-890-771	Sequence 771, App
45	8	3.3	1531	US-60-490-890-767	Sequence 767, App

ALIGNMENTS

RESULT 1
PCT-US02-29560A-203
Sequence 203, Application PC/TUS0229560A
GENERAL INFORMATION:
APPLICANT: Afar, Daniel
APPLICANT: Aziz, Natasha
APPLICANT: Gish, Kurt C.
APPLICANT: Hevezl, Peter A.
APPLICANT: Mack, David H.
APPLICANT: Wilson, Keith E.
APPLICANT: Zlotnik, Albert
APPLICANT: Eos Biotechnology, Inc.
TITLE OR INVENTION: Methods of Diagnosis of Cancer, Compositions and
FILE REFERENCE: 018501-002710PC
CURRENT APPLICATION NUMBER: PCT/US02/29560A
CURRENT FILING DATE: 2002-09-17
PRIOR APPLICATION NUMBER: US 60/323,469
PRIOR FILING DATE: 2001-09-17
NUMBER OF SEQ ID NOS: 412
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 203
LENGTH: 243
TYPE: PRT
ORGANISM: Homo sapiens
PCT-US02-29560A-203
Query Match 70.0%; Score 170; DB 1: Length 243;
Best Local Similarity 100.0%; Pred. No. 6.4e-143;
Matches 170; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 74 IPGPGIGDGRGKGEKGRSEFESESWTPNTKQCSWSSLNTGIDGKIAECTFTMRS 133
DB 74 IPGPGIGDGRGKGEKGRSEFESESWTPNTKQCSWSSLNTGIDGKIAECTFTMRS 133
QY 134 NSALRYLFSSGLRKRKNACCQRMFTFNGAECSSGPLIPAIITLDOGSPEMNSTNIHR 193
DB 134 NSALRYLFSSGLRKRKNACCQRMFTFNGAECSSGPLIPAIITLDOGSPEMNSTNIHR 193
QY 194 TTSVEGICBEGIGAGLVDAIVATWVGCSDPKGDASTGMSVSRITIELPK 243
DB 194 TTSVEGICBEGIGAGLVDAIVATWVGCSDPKGDASTGMSVSRITIELPK 243
RESULT 2
US-10-603-113-23275
Sequence 23275, Application US/10603113
GENERAL INFORMATION:
APPLICANT: Keith Weinstein et al

```

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
; FILE REFERENCE: 107196.132
; CURRENT APPLICATION NUMBER: US/10/603,113
; CURRENT FILING DATE: 2003-06-24
; PRIOR APPLICATION NUMBER: US/09/248,796
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 28206
; SEQ ID NO 23275
; LENGTH: 80
; TYPE: PRT
; ORGANISM: Candida albicans
US-10-603-113-23275

Query Match
Best Local Similarity 3.7%; Score 9; DB 6; Length 80;
Pred. No. 0.33;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 LLLLLLQL 24
DB 1 LLLLLLQL 9

RESULT 3
US-10-464-368-85
; Sequence 85, Application US/10464368
; GENERAL INFORMATION:
; APPLICANT: Krumlauf, Robb
; APPLICANT: Ellices, Debra
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR REGULATING BONE DEPOSITION
; FILE REFERENCE: 40716-IP-017
; CURRENT APPLICATION NUMBER: US/10/464,368
; CURRENT FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: 60/388,970
; PRIOR FILING DATE: 2002-06-14
; NUMBER OF SEQ ID NOS: 140
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 85
; LENGTH: 996
; TYPE: PRT
; ORGANISM: MOUSE
US-10-464-368-85

Query Match
Best Local Similarity 3.7%; Score 9; DB 6; Length 996;
Pred. No. 3;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 16 LLLLLLQL 24
DB 14 LLLLLLQL 22

RESULT 4
US-60-487-610-2411
; Sequence 2411, Application US/60487610
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: HUANG, Hongjin
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,
; FILE REFERENCE: C1001469
; CURRENT APPLICATION NUMBER: US/60/487,610
; CURRENT FILING DATE: 2003-07-17
; NUMBER OF SEQ ID NOS: 97101
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2411
; LENGTH: 1164
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-487-610-2411

Query Match 3.7%; Score 9; DB 7; Length 1164;
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Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGPGA 71
DB 724 PGRDGPGA 732

RESULT 5
US-60-485-450-1525
; Sequence 1525, Application US/60485450
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: CHANG, Sheng-Yung
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: RESPONSE TO INTERFERON TREATMENT IN HEPATITIS C
; TITLE OF INVENTION: VIRUS-INFECTED SUBJECTS, METHODS OF DETECTION AND USES
; FILE REFERENCE: C1001470
; CURRENT APPLICATION NUMBER: US/60/485,450
; CURRENT FILING DATE: 2003-07-09
; NUMBER OF SEQ ID NOS: 47859
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1525
; LENGTH: 1164
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-485-450-1525

Query Match
Best Local Similarity 3.7%; Score 9; DB 7; Length 1164;
Pred. No. 3.5;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGPGA 71
DB 724 PGRDGPGA 732

RESULT 6
US-60-487-610-2407
; Sequence 2407, Application US/60487610
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: HUANG, Hongjin
; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
; TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,
; FILE REFERENCE: C1001469
; CURRENT APPLICATION NUMBER: US/60/487,610
; CURRENT FILING DATE: 2003-07-17
; NUMBER OF SEQ ID NOS: 97101
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2407
; LENGTH: 1284
; TYPE: PRT
; ORGANISM: Homo sapiens
US-60-487-610-2407

Query Match
Best Local Similarity 3.7%; Score 9; DB 7; Length 1284;
Pred. No. 3.8;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGPGA 71
DB 844 PGRDGPGA 852

RESULT 7
US-60-485-450-1521
; Sequence 1521, Application US/60485450
; GENERAL INFORMATION:
; APPLICANT: CARGILL, Michele
; APPLICANT: CHANG, Sheng-Yung
```

;; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;; TITLE OF INVENTION: RESPONSE TO INTERFERON TREATMENT IN HEPATITIS C
;; TITLE OF INVENTION: VIRUS-INFECTED SUBJECTS, METHODS OF DETECTION AND USES
;; TITLE OF INVENTION: THEREOF
;; FILE REFERENCE: CL001470
;; CURRENT APPLICATION NUMBER: US/60/485,450
;; NUMBER OF SEQ ID NOS: 47859
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 1521
;; LENGTH: 1284
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-60-485-450-1521

Query Match
Best Local Similarity 100.0%; Score 9; DB 7; Length 1284;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGSFGA 71
DB 844 PGRDGSFGA 852

RESULT 8
PCT-US02-18638A-36
;; Sequence 36, Application PC/TUS0218638A
;; GENERAL INFORMATION:
;; APPLICANT: Millennium Pharmaceuticals, Inc. et al.
;; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
;; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
;; FILE REFERENCE: MRI-035PC
;; CURRENT APPLICATION NUMBER: PCT/US02/18638A
;; CURRENT FILING DATE: 2002-06-12
;; PRIOR APPLICATION NUMBER: US 60/298,159
;; PRIOR FILING DATE: 2001-06-13
;; PRIOR APPLICATION NUMBER: US 60/298,155
;; PRIOR FILING DATE: 2001-06-13
;; PRIOR APPLICATION NUMBER: US 60/335,936
;; PRIOR FILING DATE: 2001-11-14
;; NUMBER OF SEQ ID NOS: 238
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 36
;; LENGTH: 1464
;; TYPE: PRT
;; ORGANISM: Homo sapiens
PCT-US02-18638A-36

Query Match
Best Local Similarity 100.0%; Score 9; DB 1; Length 1464;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGSFGA 71
DB 1024 PGRDGSFGA 1032

RESULT 9
US-10-291-265-243
;; Sequence 243, Application US/10291265
;; GENERAL INFORMATION:
;; APPLICANT: Hyseq, Inc.
;; APPLICANT: Tang et al
;; TITLE OF INVENTION: Novel Nucleic Acids and Polypeptides
;; FILE REFERENCE: 21272-017 (785)
;; CURRENT APPLICATION NUMBER: US/10/291,265
;; CURRENT FILING DATE: 2000-01-25
;; PRIOR APPLICATION NUMBER: 09/491,404
;; PRIOR FILING DATE: 2000-01-25
;; PRIOR APPLICATION NUMBER: 09/617,746
;; PRIOR FILING DATE: 2000-07-17
;; PRIOR APPLICATION NUMBER: 09/631,451

;; PRIOR FILING DATE: 2000-08-03
;; PRIOR APPLICATION NUMBER: 09/633,870
;; PRIOR FILING DATE: 2000-09-15
;; NUMBER OF SEQ ID NOS: 944
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 243
;; LENGTH: 1464
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-10-291-265-243

Query Match
Best Local Similarity 100.0%; Score 9; DB 6; Length 1464;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGSFGA 71
DB 1024 PGRDGSFGA 1032

RESULT 10
US-60-487-610-2409
;; Sequence 2409, Application US/60487610
;; GENERAL INFORMATION:
;; APPLICANT: CARGILL, Michele
;; APPLICANT: HUANG, Hongjin
;; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;; TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,
;; TITLE OF INVENTION: METHODS OF DETECTION AND USES THEREOF
;; FILE REFERENCE: CL001469
;; CURRENT APPLICATION NUMBER: US/60/487,610
;; CURRENT FILING DATE: 2003-07-17
;; NUMBER OF SEQ ID NOS: 97101
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 2409
;; LENGTH: 1464
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-60-487-610-2409

Query Match
Best Local Similarity 100.0%; Score 9; DB 7; Length 1464;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGRDGSFGA 71
DB 1024 PGRDGSFGA 1032

RESULT 11
US-60-485-450-1523
;; Sequence 1523, Application US/60485450
;; GENERAL INFORMATION:
;; APPLICANT: CARGILL, Michele
;; APPLICANT: CHANG, Sheng-Yung
;; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
;; TITLE OF INVENTION: RESPONSE TO INTERFERON TREATMENT IN HEPATITIS C
;; TITLE OF INVENTION: VIRUS-INFECTED SUBJECTS, METHODS OF DETECTION AND USES
;; FILE REFERENCE: CL001470
;; CURRENT APPLICATION NUMBER: US/60/485,450
;; CURRENT FILING DATE: 2003-07-09
;; NUMBER OF SEQ ID NOS: 47859
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 1523
;; LENGTH: 1464
;; TYPE: PRT
;; ORGANISM: Homo sapiens
US-60-485-450-1523

Query Match
Best Local Similarity 100.0%; Score 9; DB 7; Length 1464;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 63 PGDGPSCGA 71
 Db 1024 PGDGPSCGA 1032

RESULT 12

US-10-603-113-21887
 ; Sequence 21887, Application US/10603113
 ; GENERAL INFORMATION:
 ; APPLICANT: Keith Weinstein et al
 ; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN
 ; FILE REFERENCE: 107196.132
 ; CURRENT APPLICATION NUMBER: US/10/603,113
 ; PRIOR FILING DATE: 2003-06-24
 ; PRIOR APPLICATION NUMBER: US/09/248,796
 ; PRIOR FILING DATE: 1999-02-12
 ; NUMBER OF SEQ ID NOS: 28206
 ; SEQ ID NO 21887
 ; LENGTH: 82
 ; TYPE: PRT
 ; ORGANISM: Candida albicans
 US-10-603-113-21887

Query Match 3.3%; Score 8; DB 6; Length 82;
 Best Local Similarity 100.0%; Pred. No. 2.6;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 GLLLLLLL 22
 Db 31 GLLLLLLL 38

RESULT 13

US-60-487-610-2653
 ; Sequence 2653, Application US/60487610
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; TITLE OF INVENTION: LIVER FIBROSIS IN HEPATITIS C VIRUS-INFECTED SUBJECTS,
 ; FILE REFERENCE: C1001469
 ; CURRENT APPLICATION NUMBER: US/60/487,610
 ; CURRENT FILING DATE: 2003-07-17
 ; NUMBER OF SEQ ID NOS: 97101
 ; SOFTWARE: FASTSEQ for Windows Version 4.0
 ; SEQ ID NO 2653
 ; LENGTH: 178
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-60-487-610-2653

Query Match 3.3%; Score 8; DB 7; Length 178;
 Best Local Similarity 100.0%; Pred. No. 5.1;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 85 GFGKEGGE 92
 Db 32 GFGKEGGE 39

RESULT 14

US-60-485-450-1694
 ; Sequence 1694, Application US/60485450
 ; GENERAL INFORMATION:
 ; APPLICANT: CARGILL, Michele
 ; TITLE OF INVENTION: GENETIC POLYMORPHISMS ASSOCIATED WITH
 ; TITLE OF INVENTION: RESPONSE TO INTERFERON TREATMENT IN HEPATITIS C
 ; TITLE OF INVENTION: VIRUS-INFECTED SUBJECTS, METHODS OF DETECTION AND USES
 ; TITLE OF INVENTION: THEREOF

FILE REFERENCE: C1001470
 ; CURRENT APPLICATION NUMBER: US/60/485,450
 ; CURRENT FILING DATE: 2003-07-09
 ; NUMBER OF SEQ ID NOS: 47859
 ; SOFTWARE: FASTSEQ for Windows Version 4.0
 ; SEQ ID NO 1694
 ; LENGTH: 178
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-60-485-450-1694

Query Match 3.3%; Score 8; DB 7; Length 178;
 Best Local Similarity 100.0%; Pred. No. 5.1;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 85 GFGKEGGE 92
 Db 32 GFGKEGGE 39

RESULT 15

US-08-867-587B-34
 ; Sequence 34, Application US/08867587B
 ; GENERAL INFORMATION:
 ; APPLICANT: Moyie, William R.
 ; TITLE OF INVENTION: Methods for Altering Fertility
 ; FILE REFERENCE: MOY1-001
 ; CURRENT APPLICATION NUMBER: US/08/867,587B
 ; CURRENT FILING DATE: 1997-06-02
 ; NUMBER OF SEQ ID NOS: 39
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 34
 ; LENGTH: 181
 ; TYPE: PRT
 ; ORGANISM: Rat leukemia virus
 US-08-867-587B-34

Query Match 3.3%; Score 8; DB 4; Length 181;
 Best Local Similarity 100.0%; Pred. No. 5.1;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 Db 6 GLLLLLLL 13

Search completed: August 13, 2003, 13:48:34
 Job time : 21 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 20, 2003, 11:07:09 ; Search time 4783 Seconds

(Without alignments)
10751.286 Million cell updates/sec

Title: US-09-938-418-2

Perfect score: 1257

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Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2888711 seqs, 2045481386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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2: gb_da
3: gb_hg
4: gb_in
5: gb_lm
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7: gb_ph
8: gb_pl
9: gb_pr
10: gb_ro
11: gb_sts
12: gb_sy
13: gb_un
14: gb_vl
15: em_da
16: em_fun
17: em_hum
18: em_in
19: em_mu
20: em_com
21: em_or
22: em_ov
23: em_pat
24: em_ph
25: em_pl
26: em_ro
27: em_sts
28: em_un
29: em_vl
30: em_hg_hum
31: em_hg_inv
32: em_hg_other
33: em_hg_mus
34: em_hg_pln
35: em_hg_rtd
36: em_hg_mam
37: em_hg_vrt
38: em_sy
39: em_hggo_hum
40: em_hggo_mus
41: em_hggo_other
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Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1257	100.0	1257	6	AX092390 Sequence
2	1257	100.0	1257	6	AX376298 Sequence
3	1257	100.0	1257	6	AX454660 Sequence
4	1257	100.0	1257	6	AX459648 Sequence
5	1257	100.0	1257	6	AX491138 Sequence
6	1257	100.0	1257	6	AX697362 Sequence
7	1231.6	98.0	1342	6	AR243851 Sequence
8	1222.8	97.3	1286	6	AR243886 Sequence
9	1217.2	96.8	1245	9	BC014245 Sequence
10	1198.8	95.4	1221	9	AY136825 Sequence
11	964.6	76.7	1215	9	AF395488 Homo sapi
12	793	63.1	860	6	AX285214 Sequence
13	728.8	58.0	732	6	BD006704 Novel pol
14	682.2	54.3	683	6	AX375790 Sequence
15	681.8	54.2	683	6	AR280558 Sequence
16	681.8	54.2	683	6	AR283054 Sequence
17	664.2	52.8	683	6	AX302743 Sequence
18	664.2	52.8	1217	10	AY136824 Rattus no
19	640.8	51.0	687	6	AX067343 Sequence
20	539.8	42.9	160197	9	AP004221 Homo sapi
21	539.8	42.9	176922	9	AC012213 Homo sapi
22	532.2	42.3	560	6	AX339938 Sequence
23	433.2	34.5	460	6	AX351434 Sequence
24	431.2	34.3	471	6	AX340025 Sequence
25	287	22.8	111496	9	AC069351 Homo sapi
26	258	20.5	271	6	AX284686 Sequence
27	232	18.5	346	6	AX198874 Sequence
28	232	18.5	346	6	AX198975 Sequence
29	231	18.4	231	6	AX209500 Sequence
30	231	18.4	231	6	AX209501 Sequence
31	228	18.1	525	6	AX198465 Sequence
32	228	18.1	525	6	AX209011 Sequence
33	218.6	17.5	74798	2	AC069352 Homo sapi
34	196.6	15.6	270	6	AX332192 Sequence
35	190.2	15.1	323534	2	AC121173 Rattus no
36	186	14.8	235421	2	AC131363 Rattus no
37	185.6	14.8	208553	9	AC145088 Mus muscu
38	184.8	14.7	166810	2	AL590222 Human DNA
39	132.8	10.6	475	6	AX284559 Sequence
40	120.6	9.6	213269	5	AL844521 Zebrafish
41	76.8	6.1	250029	3	AE014830 Plasmodiu
42	75.2	6.0	335050	3	AL929356 Plasmodiu
43	71.8	5.7	246611	2	AC111404 Rattus no
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ALIGNMENTS

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LOCUS Sequence
DEFINITION AX092390
ACCESSION AX092390
VERSION AX092390.1 GI:13444509
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Eaton,D.L., Pilvaroff,E., Gerritsen,M.E., Goddard,A.,
Godowski,P.J., Grimaldi,C.J., Gurney,A.L., Watanabe,C.K. and
Wood,W.I.
```

TITLE	Secreted and transmembrane polypeptides and nucleic acids encoding the same									
JOURNAL	Patent: WO 0116318-A 121 08-MAR-2001;									
FEATURES	Genentech, Inc. (US)									
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	/db_xref="taxon:9606"									
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Best Local Similarity	100.0%;	Pred. No. 1.2e-213;								
Matches 1257;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;		
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DB	1	GGAGAGAGGCGCGGGGTGAAAGGGCGCAATTGATGACAGCTGGGGGGGCTCGGAGCGGG	60							
OY	61	CGGAGCCAGAGCGCTGACACCAGTTCCTCTCCTGAGTCTCTCCGCTCCAGTCCGCGCTG	120							
DB	61	CGGAGCCAGAGCGCTGACACCAGTTCCTCTCCTGAGTCTCTCCGCTCCAGTCCGCGCTG	120							
OY	121	CCCGGACACCGGGAGCCATGGACACCCAGGGCCCGCGCTCCCGAGCGGCTCCGG	180							
DB	121	CCCGGACACCGGGAGCCATGGACACCCAGGGCCCGCGCTCCCGAGCGGCTCCGG	180							
OY	181	GCCTTCCTGCTGCTCTGCTGTGTCAGTGCAGTCCCGCGCCGCTCGAGCGCTCTGAGATCCCA	240							
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OY	241	AGGGAGAACAAAAGGCGCAGCTCCGGCAGAGGAGGTGTGAGCCTGTATTAATGGAATGT	300							
DB	241	AGGGAGAACAAAAGGCGCAGCTCCGGCAGAGGAGGTGTGAGCCTGTATTAATGGAATGT	300							
OY	301	GCTTCAAGAGGCGCAGACAGAGTGCCTGTGTGAGAGGGAGCCCTGGGCGCAATGTTATTC	360							
DB	301	GCTTCAAGAGGCGCAGACAGAGTGCCTGTGTGAGAGGGAGCCCTGGGCGCAATGTTATTC	360							
OY	361	CGGGTACACCTTGGGATGCCAGGTGCGGATGTGATTCAAAGAGAAAAGGGGAAATGTCGA	420							
DB	361	CGGGTACACCTTGGGATGCCAGGTGCGGATGTGATTCAAAGAGAAAAGGGGAAATGTCGA	420							
OY	421	GGGAAAGCTTTGAGAGAGTCTGGAGACCCACTACACAGAGTTCATGAGATCATGGA	480							
DB	421	GGGAAAGCTTTGAGAGAGTCTGGAGACCCACTACACAGAGTTCATGAGATCATGGA	480							
OY	481	AATATGCAATAGATCTTGGGAAATTTGGGAGGTGATCTTACAAAGATGCGTCAATA	540							
DB	481	AATATGCAATAGATCTTGGGAAATTTGGGAGGTGATCTTACAAAGATGCGTCAATA	540							
OY	541	GTGCTCTAAGAGTTTGTTCAGTGGCTACCTGGCTAAATGCGAAGATGCAATGCTGTC	600							
DB	541	GTGCTCTAAGAGTTTGTTCAGTGGCTACCTGGCTAAATGCGAAGATGCAATGCTGTC	600							
OY	601	AGCGTTGGTATTTACATTCATCAATGAGAGTGTGATGTCAGAGCTCTTCCATTGAAGCTA	660							
DB	601	AGCGTTGGTATTTACATTCATCAATGAGAGTGTGATGTCAGAGCTCTTCCATTGAAGCTA	660							
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DB	661	TAAATTTATTTGGACCAAGAAAGCCCTGAAATGAATTCACAAATTAATTAATTCATGCGACT	720							
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DB	721	CTTCTGAGGAAGGACTTGTGAAGAANTGGTGTGATTAAGTGAAGTTCCTATCTGGG	780							
OY	781	TTGGACACTTGTTCAGATTAACCAAAAGAGATGCTTACACGATGATGAAATTCAGATTTCTC	840							
DB	781	TTGGACACTTGTTCAGATTAACCAAAAGAGATGCTTACACGATGATGAAATTCAGATTTCTC	840							
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Db 1141 TTTGTTTTTCTCTAGTATAGCATTTTAAAAAATATATAAGCTACCAATCTTGTAC 1200

Qy 1201 AATTTGTAATGTAAAGATTTTATATATCTGTTAAATATATATTTTCCACA 1257

Db 1201 AATTTGTAATGTAAAGATTTTATATATCTGTTAAATATATATTTTCCACA 1257

RESULT 5
AX491138 1257 bp DNA linear PAT 16-AUG-2002

LOCUS AX491138 Sequence 245 from Patent WO0200690.

DEFINITION AX491138

ACCESSION AX491138

VERSION AX491138.1 GI:22323906

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1 Baker, K.P., Ferrara, N., Gerber, H., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L., Hillan, K.J., Masters, S.A., Pan, J., Paoni, N.F., Stephan, J.P., Watanabe, C.K., Williams, P.M., Wood, W.I., and Ye, W.

TITLE Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis

JOURNAL Patent: WO 0200690-A 245 03-JAN-2002;

FEATURES

source Location/Qualifiers

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/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

BASE COUNT 324 a 264 c 299 g 370 t

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Query Match 100.0%; Score 1257; DB 6; Length 1257;
Best Local Similarity 100.0%; Pred. No. 1.2e-213;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 421 GGGAAAGCTTTGAGAGTCCCTGGACACCCCAATACAGAGGTTCATGAGTTCATGCA 480

Db 421 GGGAAAGCTTTGAGAGTCCCTGGACACCCCAATACAGAGGTTCATGAGTTCATGCA 480

Qy 481 AATATGGCATAGATCTTGGGAAAATTCGGAGTGTACATTTACAAAGATCCGTTCAAAA 540

Db 481 AATATGGCATAGATCTTGGGAAAATTCGGAGTGTACATTTACAAAGATCCGTTCAAAA 540

Qy 541 GTGCTTAGAGATTTTGTTCAGTGGCTCACTTGGCTAAATGACAGAAATGATGCTGTC 600

Db 541 GTGCTTAGAGATTTTGTTCAGTGGCTCACTTGGCTAAATGACAGAAATGATGCTGTC 600

Qy 601 AGCGTGTATTTACATTCATTCAGAGATGATGATGATGATGATGATGATGATGATGAT 660

Db 601 AGCGTGTATTTACATTCATTCAGAGATGATGATGATGATGATGATGATGATGATGAT 660

Qy 661 TAAATTAATTTGACCAAGAGAGCCCTGAATGATTCACAAATTAATTCATGACACTT 720

Db 661 TAAATTAATTTGACCAAGAGAGCCCTGAATGATTCACAAATTAATTCATGACACTT 720

Qy 721 CTTCCTGGAAGACATTTGTGAAGAAATGCTGCTGATTAATGATGATGATGATGATGAT 780

Db 721 CTTCCTGGAAGACATTTGTGAAGAAATGCTGCTGATTAATGATGATGATGATGATGAT 780

Qy 781 TTGGCACTGTTGAGATTTACCAAGAGAGATGCTCTCTGATGATGATGATGATGATGAT 840

Db 781 TTGGCACTGTTGAGATTTACCAAGAGAGATGCTCTCTGATGATGATGATGATGATGAT 840

Qy 841 GCATCATTTATGGAAGACATTCACAAATTAATGATTTTATGATGATGATGATGATGAT 900

Db 841 GCATCATTTATGGAAGACATTCACAAATTAATGATTTTATGATGATGATGATGATGAT 900

Qy 901 TTAATTAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960

Db 901 TTAATTAATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960

Qy 961 GAATGAAAAGCAAGGATTAATATGATTTAGACCAAGAGTGTATTCACACCTTTTAA 1020

Db 961 GAATGAAAAGCAAGGATTAATATGATTTAGACCAAGAGTGTATTCACACCTTTTAA 1020

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Db 1021 ATCTACATATTCATTTGCTTCAATCAAAAGTGGTTTCATATTTTATAGTGGT 1080

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Qy 1141 TTTGTTTTTCTCTAGTATAGCATTTTAAAAAATATATAAGCTACCAATCTTGTAC 1200

Db 1141 TTTGTTTTTCTCTAGTATAGCATTTTAAAAAATATATAAGCTACCAATCTTGTAC 1200

Qy 1201 AATTTGTAATGTAAAGATTTTATATATCTGTTAAATATATATTTTCCACA 1257

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RESULT 6
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LOCUS AX697362 Sequence 430 from Patent WO0078961.

DEFINITION AX697362

ACCESSION AX697362

VERSION AX697362.1 GI:29498494

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE 1 Ferrara, N., Stewart, T.A., Williams, P.M., Baker, K.P., Desnoyers, L.,

Eaton, D.L., Gao, W.Q., Pan, J., Botstein, D., Fong, S., Goddard, A.,
Goddard, P.J., Guirney, A.L., Smith, V., Tuma, D., Wood, W.I.,
Grimaldi, C.J., Hillan, K.J., Paoni, N.F., Roy, M.A. and Watanabe, C.K.
Secreted and transmembrane polypeptides and nucleic acids encoding
the same
JOURNAL Patent: WO 007961-A 430 28-DEC-2000;

FEATURES
Source Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="genomic DNA"
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BASE COUNT 324 a 264 c 299 g 370 t
ORIGIN

Query Match 100.0%; Score 1257; DB 6; Length 1257;
Best Local Similarity 100.0%; Pred. No. 1.2e-213;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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61 CGAGACCGAGACGCTGACCAAGTCTCCCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
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1201 AATTGTAAATGTTAAGATTTTATTTATCTGTTAATAAATTAATTTTCCACACA 1257
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RESULT 7
AR243851 1342 bp DNA linear PAT 20-DEC-2002
LOCUS
DEFINITION Sequence 89 from patent US 6476195.
ACCESSION AR243851
VERSION AR243851.1 GI:27291344
KEYWORDS
SOURCE
ORGANISM
Unknown.
Unclassified.

REFERENCE
1 (bases 1 to 1342)
Komatsoulis, G., Rosen, C.A., Ruben, S.M., Duan, R.D., Moore, P.A.,
Shi, Y., Lafleur, D.W., Wei, Y.-F., Ni, J., Florence, R.A., Young, P.,
Brewer, L.A., Soppet, D.R., Endress, G.A., Ebner, R., Olsen, H. and
Mucenski, M.
TITLE
Secreted protein HNF20
JOURNAL
Patent: US 6476195-A 89 05-NOV-2002;
FEATURES
Source Location/Qualifiers
1.1342
/organism="unknown"

BASE COUNT 405 a 268 c 300 g 369 t
ORIGIN

Query Match 98.0%; Score 1231.6; DB 6; Length 1342;
Best Local Similarity 99.6%; Pred. No. 4e-209;
Matches 1245; Conservative 0; Mismatches 4; Indels 1; Gaps 1;
8 GCGCGCGGTGAAGAGCGCATGATGATGATGATGATGATGATGATGATGATGATGAT 67
12 GCGCGCGGTGAAGAGCGCATGATGATGATGATGATGATGATGATGATGATGATGAT 70
68 AGAGCTGACCAAGTCT 127
71 AGAGCTGACCAAGTCT 130
128 GCGGAG 187
131 GCGGAG 190
188 GCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 247
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QY 248 GCAAAAGGCGACCTCCGACAGAGGAGTGGTGCACCTGTAATGAAATGCTTACA 307
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 DB 731 GGAAGAGCTTTGTGAAGAAATGTCGCTGATTAAGTATGATGCTATCGGTTGGCAC 790
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RESULT 8
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 LOCUS AR243886 1286 bp DNA linear PAT 20-DEC-2002

DEFINITION Sequence 124 from patent US 6476195.
 ACCESSION AR243886
 VERSION AR243886.1 GI:27291379
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unknown.
 REFERENCE 1 (bases 1 to 1286)
 AUTHORS Komatsoulis,G., Rosen,C.A., Ruben,S.M., Duan,R.D., Moore,P.A., Shi,Y., Lafleur,D.W., Wei,Y.-F., Nij,J., Florence,K.A., Young,P., Brewer,L.A., Soppet,D.R., Endress,G.A., Edner,R., Olsen,H. and Mucenski,M.
 TITLE Secreted protein HNFEP20
 JOURNAL Patent: US 6476195-A 124 05-NOV-2002;
 FEATURES Location/Qualifiers
 source 1..1286
 BASE COUNT 357 a 264 c 296 g 368 t 1 others
 ORIGIN
 Query Match 97.3%; Score 1222.8; DB 6; Length 1286;
 Best Local Similarity 99.7%; Pred. No. 1.4e-207;
 Matches 1246; Conservative 0; Mismatches 2; Indels 2; Gaps 2;
 QY 8 GGGCGCGGGGTGAAGAGCCGATGATGACAGCTGCGGCGGCTCGAGCGCGGAGCC 67
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 DB 660 TTTGACCAAGAGAGCCCTGAATGTAATCAACAAATTAATTAATTCATGCGACTCTCTCT 719
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RESULT 9
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LOCUS      BC014245      1245 bp      mRNA      linear      PRI 12-SEP-2001
DEFINITION Homo sapiens, similar to RIKEN cDNA 1110014B07 gene, clone
ACCESSION MG:20766 IMAGE:4586039, mRNA, complete cds.
VERSION    BC014245
KEYWORDS   BC014245.1 GI:15559789
SOURCE     MG.
ORGANISM   Homo sapiens (human)
            Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
            1 (bases 1 to 1245)
            Strausberg, R.
REFERENCE   Direct Submission
            Submitted (10-SEP-2001) National Institutes of Health, Mammalian
            Gene Collection (MGC), Cancer Genomics Office, National Cancer
            Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
            USA
            NIH-MGC Project URL: http://mgc.ncl.nih.gov
            Contact: MGC help desk
            Email: gcgaps-remail.nih.gov
            Tissue Procurement: DCTD/DP
            CDNA Library Preparation: Rubin Laboratory
            CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
            DNA Sequencing by: National Institutes of Health Intramural
            Sequencing Center (NISC),
            Gaithersburg, Maryland.
            Web site: http://www.nisc.nih.gov/
            nisc_mgc@hgrl.nih.gov
            Contact: nisc_mgc@hgrl.nih.gov
            Shevchenko, Y., Wetherby, R.D., Beckstrom-Sternberg, S.M.,
            Benjamin, B., Blakesley, R.W., Bouffard, G.G., Brinkley, C., Brooks, S.,
            Dietrich, N.L., Guan, X., Gupta, J., Ho, S.-L., Karlins, E., Legaspi, R.,
            Lim, M., Maduro, O.L., Maslejo, C., Mastrian, S.D., McCloskey, J.C.,
            McConwell, J., Pearson, R., Snyder, B., Stentilipop, S., Thomas, P.J.,
            Tjongson, E.E., Touchman, J.W., Tsurgon, C., Vogt, J.L., Walker, M.A.,
            Zhang, L.-H. and Green, E.D.

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Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: <http://image.llnl.gov>
 Series: IRAL Plate: 30 Row: 1 Column: 18
 This clone was selected for full length sequencing because it passed the following selection criteria: Genomescan gene prediction.

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 /db_xref="GI:15559790"

BASE COUNT 334 a 260 c 287 g 364 t

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 Best Local Similarity 99.8%; Pred. No. 1.4e-206;
 Matches 1219; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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RESULT 10
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 (CTHRC1) mRNA, complete cds.
 ACCESSION AY136825
 VERSION AY136825.1 GI:25989620
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 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1221)
 AUTHORS Lehnert, W., Moore, D.P., Harmon, K.J., Mancini, M.L. and Lindner, V.
 TITLE Expression of the novel collagen triple helix repeat-containing
 gene (cthrcl) suggests functions in multiple organ systems
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 1221)
 AUTHORS Lindner, V.
 JOURNAL Direct Submission
 TITLE Submitted (29-JUL-2002) Center for Molecular Medicine, Maine
 JOURNAL Medical Center Research Institute, 81 Research Drive, Scarborough,
 ME 04074, USA
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BASE COUNT 316 a 258 c 285 g 362 t

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 Best Local Similarity 99.8%; Pred. No. 2.7e-203;
 Matches 1211; Conservative 0; Mismatches 2; Indels 1; Gaps 1;

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 DEFINITION AF395488
 ACCESSION AF395488.1 GI:27525623
 VERSION AF395488.1 GI:27525623
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1215)
 TITLE Novel polypeptide found in human cornea cDNA library
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 1215)
 TITLE Sanuki, N., Fujiki, K., Kanai, A., Tanaka, Y. and Iwata, T.
 AUTHORS Sanuki, N., Fujiki, K., Kanai, A., Tanaka, Y. and Iwata, T.
 DIRECT SUBMISSION
 JOURNAL Submitted (25-JUN-2001) National Center for Sensory Organs,
 National Tokyo Medical Center, 2-5-1 Higashiagoka, Meguro, Tokyo
 152-8902, Japan
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DEFINITION Sequence 3 from Patent WO0173031.
ACCESSION AX375790
VERSION AX375790.1 GI:19170293
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Xu,J. and Stolk,J.A.
TITLE Compositions and methods for the therapy and diagnosis of ovarian cancer
JOURNAL Patent: WO 0173031-A 3 04-OCT-2001;
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1. 683
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Best Local Similarity 99.7%; Pred. No. 1.9e-111;

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DEFINITION Sequence 63 from patent US 6518237.
ACCESSION AR280558
VERSION AR280558.1 GI:29716028
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1
AUTHORS Yugu,J., Dillon,D.C., Mitchem,J.L. and Xu,J.
TITLE Compositions for treatment and diagnosis of breast cancer and methods for their use
JOURNAL Patent: US 6518237-A 63 11-FEB-2003;
FEATURES
SOURCE Location/Qualifiers
1. 683
/organism="unknown"

BASE COUNT 255 a 118 c 107 g 200 t 3 others
ORIGIN
Query Match 54.2%; Score 681.8; DB 6; Length 683;

Best Local Similarity 99.6%; Pred. No. 2.3e-111;
Matches 680; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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Job time : 4791 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 20, 2003, 11:55:54 ; Search time 381 Seconds
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	1257	100.0	1257	24	AB574438 Human cDNA encoding
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7	1257	100.0	1257	24	AB532117 Human tumour-asso
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22	1253.8	99.7	1265	25	ABX63682 Human cDNA #682 di
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25	1253.8	99.7	1284	25	ABX76336 Lung cancer-associ
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27	1250.6	99.5	1295	22	AAH99687 Human protein enco
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ALIGNMENTS

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XX	transmembrane; secretion; immunoadhesion; pharmaceutical; screening;	
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XX	Homo sapiens.	
OS	WO200012708-A2.	
PN	09-MAR-2000.	
XX	01-SEP-1999;	99WO-US20111.
PD	01-SEP-1998;	98US-0098716.
XX	01-SEP-1998;	98US-0098749.
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PR 17-NOV-1998; 98US-0108867.
PR 17-NOV-1998; 98US-0108925.
PR 18-NOV-1998; 98US-0108848.
PR 18-NOV-1998; 98US-0108849.
PR 18-NOV-1998; 98US-0108850.
PR 18-NOV-1998; 98US-0108851.
PR 18-NOV-1998; 98US-0108852.
PR 18-NOV-1998; 98US-0108858.
PR 18-NOV-1998; 98US-0108904.

XX (GENE) GENENTECH INC.
XX
XX Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WI;
XX WPI; 2000-237871/20.
XX DR P-PSDB; AAY99462.
XX
XX New mammalian DNA sequences encoding transmembrane, receptor or
XX secreted PRO polypeptides, useful for screening of potential peptide or
XX small molecule inhibitors of the relevant receptor/ligand interactions
XX
XX Claim 2; Fig 245; 773pp; English.
XX
XX AA37022 to AA37144 encode the new isolated human transmembrane,
XX receptor or secreted PRO polypeptides given in AAY9340 to AAY9462. The
XX transmembrane and receptor PRO proteins can be used for screening of
XX potential peptide or small molecule inhibitors of the relevant
XX receptor/ligand interactions. The polypeptides and nucleotide sequences
XX encoding them have various industrial applications, including uses as
XX pharmaceutical and diagnostic agents. AA37145 to AA37330 represent
XX PCR primers and hybridisation probes used in the isolation of the PRO
XX polypeptides from the present invention.
XX
XX Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;
XX
XX
XX Query Match 100.0%; Score 1257; DB 21; Length 1257;
XX Best Local Similarity 100.0%; Pred. No. 1,7e-251;
XX Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 GGAGAGAGGCGGCGGTGAAGGCGATGATGATGACCTGCGGCGCTCGAGGCGG 60
XX 1 GGAGAGAGGCGGCGGCGGTGAAGGCGATGATGATGACCTGCGGCGCTCGAGGCGG 60

```


[illegible]

QY	1141	TTTGTTTTTCCTAGATAGCATTTTAAAAAAATATAAGCTACATCTTGTAC	1200
Db	1141	TTGTTTTTTCCTAGATAGCATTTTAAAAAAATATAAGCTACCAATCTTGTAC	1200
QY	1201	AATTTGTAAGCTTAGAATTTTTTTTATCTGTTAAATATAATTTTCCACA	1257
Db	1201	AATTTGTAAGCTTAGAATTTTTTTTATCTGTTAAATATAATTTTCCACA	1257
RESULT 2			
AA\$46107			
ID	AA\$46107	standard; cDNA; 1257 BP.	
XX			
AC	AA\$46107;		
XX			
DT	18-DEC-2001	(first entry)	
XX			
DE	Human DNA encoding PRO polypeptide sequence #183.		
XX			
KW	PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep; ss;		
KW	dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;		
KW	blood; chondrocyte cell; cell proliferation; cell differentiation; colon;		
KW	adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder;		
KW	PCR primer.		
XX			
OS	Homo sapiens.		
XX			
PN	WO200168848-A2.		
XX			
PD	20-SEP-2001.		
XX			
XX	28-FEB-2001;	2001WO-US06520.	
XX			
PR	01-MAR-2000;	2000WO-US05601.	
PR	02-MAR-2000;	2000WO-US05841.	
PR	03-MAR-2000;	2000US-187202P.	
PR	06-MAR-2000;	2000US-186968P.	
PR	14-MAR-2000;	2000US-189320P.	
PR	14-MAR-2000;	2000US-189328P.	
PR	15-MAR-2000;	2000WO-US06884.	
PR	21-MAR-2000;	2000US-190828P.	
PR	21-MAR-2000;	2000US-191007P.	
PR	21-MAR-2000;	2000US-191048P.	
PR	21-MAR-2000;	2000US-191314P.	
PR	28-MAR-2000;	2000US-192655P.	
PR	29-MAR-2000;	2000US-193032P.	
PR	29-MAR-2000;	2000US-193053P.	
PR	30-MAR-2000;	2000WO-US08439.	
PR	04-APR-2000;	2000US-194449P.	
PR	11-APR-2000;	2000US-194647P.	
PR	11-APR-2000;	2000US-195975P.	
PR	11-APR-2000;	2000US-196000P.	
PR	11-APR-2000;	2000US-196187P.	
PR	11-APR-2000;	2000US-196690P.	
PR	11-APR-2000;	2000US-196820P.	
PR	18-APR-2000;	2000US-198121P.	
PR	18-APR-2000;	2000US-198585P.	
PR	25-APR-2000;	2000US-199397P.	
PR	25-APR-2000;	2000US-199550P.	
PR	25-APR-2000;	2000US-199654P.	
PR	03-MAY-2000;	2000US-201516P.	
PR	17-MAY-2000;	2000WO-US13705.	
PR	22-MAY-2000;	2000WO-US14042.	
PR	30-MAY-2000;	2000WO-US14941.	
PR	02-JUN-2000;	2000WO-US15264.	
PR	05-JUN-2000;	2000US-209832P.	
PR	28-JUL-2000;	2000WO-US20710.	
PR	22-AUG-2000;	2000US-0644848.	
PR	24-AUG-2000;	2000WO-US23328.	
PR	08-NOV-2000;	2000WO-US30952.	
PR	01-DEC-2000;	2000WO-US32678.	
PR	20-DEC-2000;	2000WO-US34956.	
XX			

PA (GETH) GENEVECH INC.
 XX Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
 PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
 XX WPI: 2001-602746/68.
 DR P-PSDB: MAU29206.
 XX
 PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
 PT presence of tumours, such as prostate and breast tumours, in mammals and
 PT to screen for modulators of the compounds -
 XX
 PS Claim 2; Fig 365; 774pp: English.
 XX
 CC Sequences AAS45925-AAS46231 represent DNA molecules encoding and PCR
 CC primers for PRO polypeptides of the invention. The sequences of the
 CC invention can be used to detect the presence of a tumour in a mammal by
 CC comparing the level of expression of a PRO polypeptide in a test sample
 CC of cells from the animal and a control sample of normal cells, whereby a
 CC higher level of expression in the test sample indicates the presence of a
 CC tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep,
 CC pigs, goats and rabbits but are preferably human. The polypeptides can be
 CC used to stimulate tumour necrosis factor (TNF) alpha release from human
 CC blood, when contacted with it. A specific polypeptide can be used to
 CC stimulate the proliferation or differentiation of chondrocyte cells. The
 CC PRO proteins can be used to determine the presence of tumours and also
 CC susceptibility to tumour development, particularly adrenal, lung, colon,
 CC breast, prostate, rectal, cervical, or liver tumours, in mammalian
 CC subjects. The oligonucleotide probes specific for the PRO nucleic acids
 CC can be used for genetic analysis of individuals with genetic disorders.
 CC
 XX Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;
 SQ
 Query Match 100.0%; Score 1257; DB 22; Length 1257;
 Best Local Similarity 100.0%; Pred. No. 1.7e-251;
 Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 541 GTGCTTAAGAGCTTTGCTCAGTGGCTCACTTGGGCTAAATGCAAAATGCATGCTGTC 600
 Db 541 GTGCTTAAGAGCTTTGCTCAGTGGCTCACTTGGGCTAAATGCAAAATGCATGCTGTC 600
 QY 601 AGCGTTGGTATTTACATTTCAATGAGACCTGAATTTTACAGACCTTCCCATTTAACTA 660
 Db 601 AGCGTTGGTATTTACATTTCAATGAGACCTGAATTTTACAGACCTTCCCATTTAACTA 660
 QY 661 TAATTTATTTGACCAAGAAAGCCCTGAATTAATGAATTAATTAATTCATGCACTT 720
 Db 661 TAATTTATTTGACCAAGAAAGCCCTGAATTAATGAATTAATTAATTCATGCACTT 720
 QY 721 CTCTGTGGAAGCACTTGTGAAGAAATGGTCTGATTAAGTATGATGCTATCTGCG 780
 Db 721 CTCTGTGGAAGCACTTGTGAAGAAATGGTCTGATTAAGTATGATGCTATCTGCG 780
 QY 781 TTGCACTTTGTCAGATTTACCAAAAGAGATGCTTACTGATGATGATGCTATCTGCG 840
 Db 781 TTGCACTTTGTCAGATTTACCAAAAGAGATGCTTACTGATGATGATGCTATCTGCG 840
 QY 841 GCATCATTTATGAAGAACTACCAAAATGAATGCTTAATTTTCTACTACCTCTTTT 900
 Db 841 GCATCATTTATGAAGAACTACCAAAATGAATGCTTAATTTTCTACTACCTCTTTT 900
 QY 901 TTATTTATGCTTGAATGCTTCACTTAATGACATTTTAAATGAATGATTAATACATCT 960
 Db 901 TTATTTATGCTTGAATGCTTCACTTAATGACATTTTAAATGAATGATTAATACATCT 960
 QY 961 GAATGAAGAAGCAAGCTTAATGATTTACAGACCAAGATGATTTACACTGTTTAA 1020
 Db 961 GAATGAAGAAGCAAGCTTAATGATTTACAGACCAAGATGATTTACACTGTTTAA 1020
 QY 1021 ATCTAGCATTAATCAATTTTGTTCATCAATCAAAAGTGTTCATTAATTTTATGATGCT 1080
 Db 1021 ATCTAGCATTAATCAATTTTGTTCATCAATCAAAAGTGTTCATTAATTTTATGATGCT 1080
 QY 1081 AGAATFACCTTCTTATAGTCAATCTCTCACTCACTTAATTAATTTGATGCTGCT 1140
 Db 1081 AGAATFACCTTCTTATAGTCAATCTCTCACTCACTTAATTAATTTGATGCTGCT 1140
 QY 1141 TTGTGTTTCTCTTATAGTCAATTTTAAATTAATTAATGCTCAATCTTGTATC 1200
 Db 1141 TTGTGTTTCTCTTATAGTCAATTTTAAATTAATTAATGCTCAATCTTGTATC 1200
 QY 1201 AATTTGTAATGTTAAGAAATTTTATATCTGTTAAATTAATTAATTTTCCACA 1257
 Db 1201 AATTTGTAATGTTAAGAAATTTTATATCTGTTAAATTAATTAATTTTCCACA 1257

RESULT 3
 AAF92118
 ID AAF92118 standard; cDNA; 1257 BP.
 XX
 AC AAF92118;
 XX
 DT 15-MAY-2001 (first entry)
 XX
 DE Human PRO1550 cDNA.
 XX
 KW Human; PRO protein; mapping; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200116318-A2.
 XX
 PD 08-MAR-2001.
 XX
 PF 24-AUG-2000; 2000WO-US23328.
 XX
 PR 01-SEP-1999; 99WO-US20111.
 PR 15-SEP-1999; 99WO-US21090.
 PR 07-DEC-1999; 99US-0169495.
 PR 09-DEC-1999; 99US-0170262.

PR 11-JAN-2000: 2000US-0175481.
PR 18-FEB-2000: 2000WO-US04341.
PR 18-FEB-2000: 2000WO-US04342.
PR 22-FEB-2000: 2000WO-US04414.
PR 01-MAR-2000: 2000WO-US05601.
PR 03-MAR-2000: 2000US-0187202.
PR 25-APR-2000: 2000US-0199397.
PR 22-MAY-2000: 2000WO-US14042.
PR 05-JUN-2000: 2000US-0209832.
XX
XX (GETH) GENENTECH INC.
PI Baton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi CJ, Gurney AL, Watanabe CK, Wood WI;
XX
XX P-PSDB: AAB87586.
DR WPI: 2001-183260/18.
XX
XX P-PSDB: AAB87586.
PT Eighty four nucleic acids encoding PRO polypeptides, useful in
PT molecular biology, including use as hybridization probes, and in
XX chromosome and gene mapping.
XX
XX Claim 2: Fig 121; 278bp; English.
XX
XX The present sequence is the coding sequence for a human PRO polypeptide
XX (secreted and transmembrane). The PRO protein, and PRO agonists, PRO
XX antagonists or anti-PRO antibodies are useful for preparation of a
XX medicament useful in the treatment of a condition which is responsive to
XX the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO
XX protein may also be employed as molecular weight markers for protein
XX electrophoresis. The PRO coding sequence has applications in molecular
XX biology, including use as hybridisation probes, and in chromosome and
XX gene mapping.
XX
SQ Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;

Query Match 100.0%; Score 1257; DB 22: Length 1257;
Best Local Similarity 100.0%; Pred. No. 1.7e-251;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGAGCGCGGGGTAAAGCGCATTTGATGACGCTGGGGGCGCTCGAGGCGCG 60
DB 1 GGAGAGAGCGCGGGGTAAAGCGCATTTGATGACGCTGGGGGCGCTCGAGGCGCG 60
QY 61 CGAGAGCGAGCGCTGACACAGCTTCCTCGCTGCTCCGCTCCAGCTCCGCGCTG 120
DB 61 CGAGAGCGAGCGCTGACACAGCTTCCTCGCTGCTCCGCTCCAGCTCCGCGCTG 120
QY 121 CCCGGCAGCCGGGAGCGATGCGACCCCGGCGCGCTCCCGCAGCGGCTCCGCG 180
DB 121 CCCGGCAGCCGGGAGCGATGCGACCCCGGCGCGCTCCCGCAGCGGCTCCGCG 180
QY 181 GCGTCTGCTGCTCGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 GCGTCTGCTGCTCGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 AAGGGAAGCAAAAGCGCAGCTCCGCGCAGAGGAGGTGTCAGCTGTAATGATGATG 300
DB 241 AAGGGAAGCAAAAGCGCAGCTCCGCGCAGAGGAGGTGTCAGCTGTAATGATGATG 300
QY 301 GCTTACAGGGCCAGCAGAGAGTGCCTGTCGAGAGCGGAGCCCTGGGGCAATGTATTC 360
DB 301 GCTTACAGGGCCAGCAGAGAGTGCCTGTCGAGAGCGGAGCCCTGGGGCAATGTATTC 360
QY 361 CGGGTACCTGGGATCCAGGTGCGGATGATGATGATGATGATGATGATGATGATG 420
DB 361 CGGGTACCTGGGATCCAGGTGCGGATGATGATGATGATGATGATGATGATGATG 420
QY 421 GGGAAAGCTTTGAGAGTCTTGACACCCCACTACAGAGAGTTCATGATGATGATG 480
DB 421 GGGAAAGCTTTGAGAGTCTTGACACCCCACTACAGAGAGTTCATGATGATGATG 480
QY 481 ATTATGGCATATCTTGGGAAATTTGCGAGTGTACATTTTACAAAGATGCGTTCAATA 540

DB 481 ATTATGGCATATCTTGGGAAATTTGCGAGTGTACATTTTACAAAGATGCGTTCAATA 540
QY 541 GTGCTTAAGAGTTTGTTCAGTGGCTTCCTGGCTAAATAGCAGAAATGATGCTGTC 600
DB 541 GTGCTTAAGAGTTTGTTCAGTGGCTTCCTGGCTAAATAGCAGAAATGATGCTGTC 600
QY 601 AGCGTGTATTTACATTCATGAGTGTGATGATGATGATGATGATGATGATGATG 660
DB 601 AGCGTGTATTTACATTCATGAGTGTGATGATGATGATGATGATGATGATGATG 660
QY 661 TAAATTTATTTGACCAAGAGAGCGCTGAATGATGATGATGATGATGATGATG 720
DB 661 TAAATTTATTTGACCAAGAGAGCGCTGAATGATGATGATGATGATGATGATG 720
QY 721 CTCTGTGAGAGACTTTGGAAGGATGTCGTCGATGATGATGATGATGATGATG 780
DB 721 CTCTGTGAGAGACTTTGGAAGGATGTCGTCGATGATGATGATGATGATGATG 780
QY 781 TTGGCACTTGTTCAGATTAACCAAGAGAGATGCTTCTACTGATGATGATGATG 840
DB 781 TTGGCACTTGTTCAGATTAACCAAGAGAGATGCTTCTACTGATGATGATGATG 840
QY 841 GCATCATTTATGAGACATACCAAAATTAATGCTTAAATTTCTATTGCTTACCT 900
DB 841 GCATCATTTATGAGACATACCAAAATTAATGCTTAAATTTCTATTGCTTACCT 900
QY 901 TTTATTTGCTTGGATGATGATGATGATGATGATGATGATGATGATGATGATG 960
DB 901 TTTATTTGCTTGGATGATGATGATGATGATGATGATGATGATGATGATGATG 960
QY 961 GAATGAAAGCAAGCTAAATATATGTTTACAGACCAAGTGTGATGATGATGATG 1020
DB 961 GAATGAAAGCAAGCTAAATATATGTTTACAGACCAAGTGTGATGATGATGATG 1020
QY 1021 ATCTACATTTATTTGATTTGCTTCATGCAAAAGTGTTCATATTTTATGTTG 1080
DB 1021 ATCTACATTTATTTGATTTGCTTCATGCAAAAGTGTTCATATTTTATGTTG 1080
QY 1081 AGAATCTTCTTCATGATGATGATGATGATGATGATGATGATGATGATGATG 1140
DB 1081 AGAATCTTCTTCATGATGATGATGATGATGATGATGATGATGATGATGATG 1140
QY 1141 TTTGTTTTTCTTATGATGATGATGATGATGATGATGATGATGATGATGATG 1200
DB 1141 TTTGTTTTTCTTATGATGATGATGATGATGATGATGATGATGATGATGATG 1200
QY 1201 AATTTGTAATGTTAAGAAATTTTATATATCTGTTAAATTAATTTATTTCCACA 1257
DB 1201 AATTTGTAATGTTAAGAAATTTTATATATCTGTTAAATTAATTTATTTCCACA 1257

RESULT 4
AAFS4507
ID AAF54507 standard; DNA; 1257 BP.
XX
XX AAF54507;
AC XX
XX
XX 02-APR-2001 (first entry)
DE XX
DE Probe #60 used in the identification of proteins.
XX
XX Secreted; transmembrane; gene therapy; ss.
OS XX
OS Unidentified.
PN XX
PN WO200078961-A1.
PD XX
PD 28-DEC-2000.
XX
XX 18-FEB-2000: 2000WO-US04342.
XX
XX 23-JUN-1999; 990S-0141037.
PR

PR 20-JUL-1999; 99US-0144758.
 PR 26-JUL-1999; 99US-0145698.
 PR 01-SEP-1999; 99MO-US20111.
 PR 29-OCT-1999; 99US-0162506.
 PR 30-NOV-1999; 99MO-US28313.
 PR 02-DEC-1999; 99MO-US28551.
 PR 16-DEC-1999; 99MO-US30095.
 PR 05-JAN-2000; 2000MO-US00219.
 PR 06-JAN-2000; 2000MO-US00376.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Botstein D, Desnovers L, Eaton DL, Ferrara N, Fong S,
 PI Gao W, Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ,
 PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D,
 PI Watanabe CK, Williams PM, Wood WI;
 PI WPI; 2001-071395/08.
 DR
 XX
 PT Secreted and transmembrane proteins and nucleic acids designated PRO,
 PT useful as hybridization probes, in chromosome and gene mapping and gene
 PT therapy -
 PS
 XX
 PS Example 124; Page 489; 787pp; English.
 CC The present invention relates to secreted and transmembrane proteins.
 CC These proteins and the DNA encoding them may be used as hybridization
 CC probes, in chromosome and gene mapping and in the generation of
 CC anti-sense RNA and DNA. They may also be used to generate either
 CC transgenic animals or knockout animals which are in turn useful for
 CC development and screening of therapeutically useful reagents.
 CC The nucleic acids may also be used in gene therapy.
 CC
 XX
 SQ Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;
 Query Match 100.0%; Score 1257; DB 22; Length 1257;
 Best Local Similarity 100.0%; Pred. No. 1.7e-251;
 Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 481 ATTATGCAATAGCTTGGGAAAATTGGGAGTGATACATTACAAAGATGGCTTCAATA 540
 Qy 541 GTGCTCTAAGAGTTTGTTCAGTGCTACTTGGCTAAATGCAAGAAATGCATGCTGTC 600
 Db 541 GTGCTCTAAGAGTTTGTTCAGTGCTACTTGGCTAAATGCAAGAAATGCATGCTGTC 600
 Qy 601 AGCGTGGTAATTCACATTCATGAGAGCTGAATGTTGAGACCTTCCCAATGAAGCTA 660
 Db 601 AGCGTGGTAATTCACATTCATGAGAGCTGAATGTTGAGACCTTCCCAATGAAGCTA 660
 Qy 661 TAAATTTATGGACCAAGAGCCCTGAAAGAAATCAACAAATTAATTCATGGCACTT 720
 Db 661 TAAATTTATGGACCAAGAGCCCTGAAAGAAATCAACAAATTAATTCATGGCACTT 720
 Qy 721 CTTCGTGGAAGACTTGTGAGGAATGGTGTGATTAATGAGATGGTGTGATGAGTTC 780
 Db 721 CTTCGTGGAAGACTTGTGAGGAATGGTGTGATTAATGAGATGGTGTGATGAGTTC 780
 Qy 781 TTGGCAGCTGTTCAGATTAACCAAGAGATGCTTCACTGATGATGCAATTCAGTTCTC 840
 Db 781 TTGGCAGCTGTTCAGATTAACCAAGAGATGCTTCACTGATGATGCAATTCAGTTCTC 840
 Qy 841 GCATCATTTATGGAAGAACTACCAAAATTAATGCTTAAATTTTCAATTCCTACCTTTT 900
 Db 841 GCATCATTTATGGAAGAACTACCAAAATTAATGCTTAAATTTTCAATTCCTACCTTTT 900
 Qy 901 TTATTTATGCTTGAATGTTCACTTAATGACATTTTAATTAATTAATTAATTAATTA 960
 Db 901 TTATTTATGCTTGAATGTTCACTTAATGACATTTTAATTAATTAATTAATTAATTA 960
 Qy 961 GAATGAAAAGCAAGCTTAATATGTTTACACACCAAGTGTGATTCACACTGTTTTTAA 1020
 Db 961 GAATGAAAAGCAAGCTTAATATGTTTACACACCAAGTGTGATTCACACTGTTTTTAA 1020
 Qy 1021 ATCTGCAATTAATTTTGTGCTCAATCAAAAGTGTTCATTAATTTTATGATGGTT 1080
 Db 1021 ATCTGCAATTAATTTTGTGCTCAATCAAAAGTGTTCATTAATTTTATGATGGTT 1080
 Qy 1081 AGAATACCTTCTCATAGTCAATCTCTCAACCTAATTAATTTGGAATTTGTGTGCT 1140
 Db 1081 AGAATACCTTCTCATAGTCAATCTCTCAACCTAATTAATTTGGAATTTGTGTGCT 1140
 Qy 1141 TTTGTTTTTCTTATGATGATTTTAAATTAATTAATTAATTAATTAATTAATTAATTA 1200
 Db 1141 TTTGTTTTTCTTATGATGATTTTAAATTAATTAATTAATTAATTAATTAATTAATTA 1200
 Qy 1201 AATTGTAATGTTAAGATTTTATCTGTTAAATTAATTAATTAATTAATTAATTAATTA 1257
 Db 1201 AATTGTAATGTTAAGATTTTATCTGTTAAATTAATTAATTAATTAATTAATTAATTA 1257
 RESULT 5
 ABS74438
 ID ABS74438 standard; cDNA; 1257 BP.
 XX
 AC ABS74438;
 XX
 DT 10-DEC-2002 (first entry)
 XX
 DE Human cDNA encoding secreted/transmembrane protein PRO1550.
 XX
 KM Human; ss; gene; secreted protein; transmembrane protein; antirheumatic;
 KM antiarthritic; osteopathic; sports-related joint problem;
 KM articular cartilage defect; osteoarthritis; rheumatoid arthritis.
 OS Homo sapiens.
 XX
 PN US2002119130-A1.
 XX
 PD 29-AUG-2002.
 XX
 PF 06-DEC-2001; 2001US-0006867.
 XX


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Db      61 CGAGCCAGACGCTGACACAGCTTCCTCTCTGCTGCTCTCTCGCCCTCAGCTCCGGCTG 120
Qy      121 CCCGCGAGCCGGAGCCATGCGACCCCGAGGGCCCGCCGCTCCCGCAGCGGCTCCGG 180
Db      121 CCCGCGAGCCGGAGCCATGCGACCCCGAGGGCCCGCCGCTCCCGCAGCGGCTCCGG 180
Qy      181 GCGCTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Db      181 GCGCTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Qy      241 AGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 300
Db      241 AGGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 300
Qy      301 GCTTACAGAGGCGCAGAGAGAGTGCCTGCTGAGAGCGGAGCCCTGGGGCCCAATGTAATTC 360
Db      301 GCTTACAGAGGCGCAGAGAGAGTGCCTGCTGAGAGCGGAGCCCTGGGGCCCAATGTAATTC 360
Qy      361 CGGGTACACCTGGGATGCCAGCTGGGATGATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Db      361 CGGGTACACCTGGGATGCCAGCTGGGATGATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Qy      421 GGGAGAGCTTTGAGAGAGCTGCTGAGACCCCACTACAGAGAGTGTATGAGTTCATTTGA 480
Db      421 GGGAGAGCTTTGAGAGAGCTGCTGAGACCCCACTACAGAGAGTGTATGAGTTCATTTGA 480
Qy      481 ATTATGCGATAGATCTTGGGAGAGATGCGAGAGTGTATTCAGAGAGTGTATTCAGAGAGAT 540
Db      481 ATTATGCGATAGATCTTGGGAGAGATGCGAGAGTGTATTCAGAGAGTGTATTCAGAGAGAT 540
Qy      541 GTGCTCTAAGAGCTTTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
Db      541 GTGCTCTAAGAGCTTTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
Qy      601 AGCGTTGATTTTCAATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 660
Db      601 AGCGTTGATTTTCAATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 660
Qy      661 TAATTTATTTGGACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
Db      661 TAATTTATTTGGACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 720
Qy      721 CTTCGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
Db      721 CTTCGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 780
Qy      781 TTGGACACTGTTCAATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 840
Db      781 TTGGACACTGTTCAATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTC 840
Qy      841 GCATCATTTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
Db      841 GCATCATTTATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
Qy      901 TTAATATGCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
Db      901 TTAATATGCTTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 960
Qy      961 GAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
Db      961 GAATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
Qy      1021 ATCTAGCATTTATTCATTTGCTTCAATCAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
Db      1021 ATCTAGCATTTATTCATTTGCTTCAATCAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1080
Qy      1081 AGAATACATTTCTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1140
Db      1081 AGAATACATTTCTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1140
Qy      1141 TTGCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1200

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Db      1141 TTGCTTTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1200
Qy      1201 AATTGTAAATGTTAAGAAATTTTATATCTGTTAATTAATAATTAATTTCCACA 1257
Db      1201 AATTGTAAATGTTAAGAAATTTTATATCTGTTAATTAATAATTAATTTCCACA 1257

RESULT 7
AAD32717
ID      AAD32717 standard; cDNA; 1257 BP.
XX
AC      AAD32717;
XX
DT      01-JUL-2002 (first entry)
XX
DE      Human tumour-associated antigenic target-170 (TAI170) cDNA.
XX
KW      Human; tumour-associated antigenic target-170; TAI170; cytosolic;
KW      gene therapy; tumour; breast; lung; liver; stomach; cancer; ADPR;
KW      antibody-dependent enzyme mediated produg therapy; gene; ss.
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OS      Homo sapiens.
XX
FH      Key      Location/Qualifiers
FT      CDS      138..869
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FT      /product= "Human TAI170 protein"
FT      sig-peptide 138..227
FT      /tag- b
FT      mat-peptide 228..866
FT      /tag- c
FT      /product= "Mature TAI170 protein"
PN      WO200216602-A2.
XX
PD      28-FEB-2002.
XX
PF      23-AUG-2001; 2001MO-US26626.
XX
PR      24-AUG-2000; 2000MO-US23328.
PR      01-DEC-2000; 2000MO-US32678.
PR      28-FEB-2001; 2001MO-US06520.
PR      01-JUN-2001; 2001MO-US17800.
PR      20-JUN-2001; 2001MO-US19692.
PR      09-JUN-2001; 2001MO-US21066.
PR      09-JUL-2001; 2001MO-US21735.
XX
PA      (GENTH ) GENENTECH INC.
XX
PI      Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Polakis P;
PI      Williams PM, Wood WI, Wu TD, Zhang Z;
XX
DR      WPI: 2002-292065/33.
DR      P-PDB: AAE20462.
XX
PT      New antibodies that bind tumor-associated antigenic target (TAI)
PT      polypeptides, useful for treating and diagnosing tumor (e.g. breast,
PT      lung, liver or stomach tumor) in mammals, e.g. dogs, cats, cattle,
PT      pigs, goats, rabbits or humans.
XX
PS      Claim 1; Fig 2; 124pp; English.
XX
CC      The present invention relates to an isolated antibody that binds to
CC      tumor-associated antigenic target (TAI) polypeptide. The antibody is
CC      used for treating and diagnosing tumours (e.g. breast, lung, liver or
CC      stomach tumours) in mammals, e.g. dogs, cats, cattle, horses, sheep,
CC      pigs, goats, rabbits, or preferably humans. The antibody may also be
CC      used in antibody-dependent enzyme mediated produg therapy (ADPR).
CC      The antibody is also useful for the therapeutic treatment or for the
CC      diagnostic detection of cancer. TAI cDNA is useful in gene therapy.
CC      The present sequence is human TAI170 cDNA designated DNA/6393-1664.
XX
SQ      Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;

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Query Match 100.0%; Score 1257; DB 24; Length 1257;
 Best Local Similarity 100.0%; Pred. No. 1.7e-251;
 Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 8
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XX
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 DE 16-MAY-2002 (first entry)
 XX
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 KW Human; angiogenesis; cardiac; cytosolic; antiangiogenic; hypotensive;
 KW vutnerary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
 KW gene therapy; cardiovascular disorder; endothelial disorder; cancer;
 KW angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
 KW age-related macular degeneration; arterial restenosis; angina;
 KW rheumatoid arthritis; myocardial infarction; thrombophlebitis;
 KW lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
 KW wound healing; chromosome mapping; gene mapping; gene; ss.

OS Homo sapiens.
 XX
 PN WO200200690-A2.
 XX
 PD 03-JAN-2002.
 XX
 PE 20-JUN-2001; 2001WO-US19692.
 XX
 PR 23-JUN-2000; 2000US-213637P.
 PR 20-JUL-2000; 2000US-219556P.
 PR 25-JUL-2000; 2000US-220624P.
 PR 28-JUL-2000; 2000US-220664P.
 PR 28-JUL-2000; 2000US-220710.
 PR 02-AUG-2000; 2000US-222695P.
 PR 17-AUG-2000; 2000US-0643657.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 07-SEP-2000; 2000US-230978P.
 PR 18-SEP-2000; 2000US-0664610.
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 PR 24-OCT-2000; 2000US-242922P.
 PR 08-NOV-2000; 2000US-0709238.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000US-0747259.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 22-JAN-2001; 2001US-0767609.
 PR 28-FEB-2001; 2001US-0796498.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06566.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0808689.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.

PR 25-MAY-2001; 2001US-0866028.
 PR 25-MAY-2001; 2001US-0866034.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 30-MAY-2001; 2001US-0870574.
 PR 30-MAY-2001; 2001WO-US17443.
 PR 01-JUN-2001; 2001WO-US17800.
 (GETH) GENENTECH INC.
 PI Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A,
 PI Godowski PJ, Guney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF,
 PI Stephan JF, Watanabe CK, Williams PM, Wood WT, Ye W;
 XX WPI; 2002-090516/12.
 DR P-PSDB; ABB84939.
 XX
 PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endothelial or angiogenic disorders in a mammal -
 PS
 PS Claim 2; Fig 245; 565pp; English.
 CC ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
 CC ABB85003. The PRO proteins and polynucleotides have cardiant, cyrostatic,
 CC antiangiogenic, hypotensive, vulnary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides,
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal,
 CC e.g. cardiac hypertrophy, trauma, cancer, age-related macular
 CC degeneration, atherosclerosis, hypertension, arterial restenosis,
 CC rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,
 CC lymphangitis, tumour angiogenesis (such as breast carcinoma and liver
 CC carcinoma) and wound healing. The PRO polynucleotides have applications
 CC in molecular biology, including use as hybridisation probes, and in
 CC chromosome and gene mapping. ABL88259 to ABL88267 represent primers and
 CC probes used in the exemplification of the present invention.
 XX
 SQ Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;
 Query Match 100.0%; Score 1257; DB 24; Length 1257;
 Best Local Similarity 100.0%; Pred. No. 1.7e-251;
 Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 ID ACAS7865 standard; cDNA; 1257 BP.
 XX
 ACAS7865;
 XX
 DT 10-JUN-2003 (first entry)
 XX
 DE Human PRO1550 cDNA.
 XX
 KW Human; PRO: secreted; transmembrane; cytosolic; TNF-alpha; blood; gene;
 KW tumour necrosis factor alpha release; chondrocyte cell; proliferation;
 KW differential; tumour; gene therapy; ss.
 OS Homo sapiens.
 XX
 PN US2003036143-A1.
 XX

PD 20-FEB-2003.
XX
XX 02-JUL-2002; 2002US-0187600.
PR 16-SEP-1998; 98WO-US19330.
PR 07-OCT-1998; 98WO-US21141.
PR 01-DEC-1998; 98WO-US25108.
PR 08-MAR-1999; 99WO-US05028.
PR 14-MAY-1999; 99WO-US1073.
PR 02-JUN-1999; 99WO-US12252.
PR 01-SEP-1999; 99WO-US20111.
PR 15-SEP-1999; 99WO-US21090.
PR 01-DEC-1999; 99WO-US28301.
PR 02-DEC-1999; 99WO-US28351.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US06884.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
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PR 28-JUL-2000; 2000WO-US20710.
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PR 29-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 29-AUG-2001; 2001WO-US27099.
PR 18-SEP-1997; 97US-059263P.
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PR 17-OCT-1997; 97US-062250P.
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PR 24-OCT-1997; 97US-063120P.
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PR 28-OCT-1997; 97US-063541P.
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PR 24-NOV-1997; 97US-066772P.
PR 11-DEC-1997; 97US-069335P.
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PR 10-MAR-1998; 98US-077450P.
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PR 20-MAR-1998; 98US-078886P.
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PR 16-JUN-1998; 98US-089512P.
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PR 19-JUN-1998; 98US-089952P.
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PR 24-JUN-1998; 98US-090422P.
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PR 25-JUN-1998; 98US-090696P.

PR	26-JUN-1998;	98US-090862P.
PR	26-JUN-1998;	98US-090863P.
PR	26-JUN-1998;	98US-091010P.
PR	01-JUL-1998;	98US-091359P.
PR	01-JUL-1998;	98US-091544P.
PR	02-JUL-1998;	98US-091478P.
PR	02-JUL-1998;	98US-091486P.
PR	02-JUL-1998;	98US-091626P.
PR	02-JUL-1998;	98US-091628P.
PR	02-JUL-1998;	98US-091632P.
PR	24-JUL-1998;	98US-094006P.
PR	04-AUG-1998;	98US-095282P.
PR	10-AUG-1998;	98US-095988P.
PR	10-AUG-1998;	98US-096012P.
PR	17-AUG-1998;	98US-096572P.
PR	17-AUG-1998;	98US-096766P.
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PR	17-AUG-1998;	98US-096891P.
PR	17-AUG-1998;	98US-096897P.
PR	18-AUG-1998;	98US-096949P.
PR	18-AUG-1998;	98US-096959P.
PR	18-AUG-1998;	98US-097022P.
PR	26-AUG-1998;	98US-097952P.
PR	26-AUG-1998;	98US-097954P.
PR	26-AUG-1998;	98US-097955P.
PR	26-AUG-1998;	98US-097971P.
PR	26-AUG-1998;	98US-097974P.
PR	26-AUG-1998;	98US-098014P.
PR	01-SEP-1998;	98US-098716P.
PR	01-SEP-1998;	98US-098723P.
PR	02-SEP-1998;	98US-098803P.
PR	02-SEP-1998;	98US-098821P.
PR	02-SEP-1998;	98US-098843P.
PR	09-SEP-1998;	98US-099602P.
PR	10-SEP-1998;	98US-099741P.
PR	10-SEP-1998;	98US-099754P.
PR	10-SEP-1998;	98US-099763P.
PR	10-SEP-1998;	98US-099812P.

Query Match	100.0%	Score 1257	DB 25	Length 1257
Best Local Similarity	100.0%	Pred. No. 1,76	251	
Matches 1257	Conservative 0	Mismatches 0	Indels 0	Gaps 0
QY	1	GGAGAGAGGCGCCGGGTGTAAGGGGCGCATTTGATGACGCTGGCGGGGCTCGAGCGCGG	60	
Db	1	GGAGAGAGGCGCCGGGTGTAAGGGGCGCATTTGATGACGCTGGCGGGGCTCGAGCGCGG	60	
QY	61	CGGAGCCAGACGCTGACACCGTTCCTCTCTCGGTCTCTCGCTCCGCTCCAGCTCCGCGCTG	120	
Db	61	CGGAGCCAGACGCTGACACCGTTCCTCTCTCTCGGTCTCTCGCTCCGCTCCAGCTCCGCGCTG	120	
QY	121	CCCGGCGAGCCCGGGAGCCATGGCAGCCCAAGGGGCCCGCGCGCTCCCGCGAGCGGCTCCGCG	180	
Db	121	CCCGGCGAGCCCGGGAGCCATGGCAGCCCAAGGGGCCCGCGCGCTCCCGCGAGCGGCTCCGCG	180	
QY	181	GCTCTCTGCTCTCTCTGCTGCTGTCGACGAGCCCGCGCGCTCGAGGCGCTCTGTGATCCCA	240	
Db	181	GCTCTCTGCTCTCTCTGCTGCTGTCGACGAGCTGCGCGCGCTCGAGGCGCTCTGTGATCCCA	240	
QY	241	AGGGGAAGCAAAAGGCGCAGCTCCGGCAGAGGGAGGTGGTGGACCTGTATATGGAATGT	300	
Db	241	AGGGGAAGCAAAAGGCGCAGCTCCGGCAGAGGGAGGTGGTGGACCTGTATATGGAATGT	300	
QY	301	GCTTACCAAGGGCCAGACAGAGTGGCTGGTTCGAGACGGGAGGCCCTTGGGGCCAATGTTATTC	360	
Db	301	GCTTACCAAGGGCCAGACAGAGTGGCTGGTTCGAGAGGGGAGGCCCTTGGGGCCAATGTTATTC	360	
QY	361	CGGGTACACCTGGGATGCCAGGTGGGAGTGTCAAGAGGAGAAAGGGGGAATTCGTGA	420	
Db	361	CGGGTACACCTGGGATGCCAGGTGGGAGTGTCAAGAGGAGAAAGGGGGAATTCGTGA	420	
QY	421	GGGAAGCTTTTGGAGAGTCTTGACACCCCAACTACAGACAGTGTTCATGAGTTCAATTGA	480	
Db	421	GGGAAGCTTTTGGAGAGTCTTGACACCCCAACTACAGACAGTGTTCATGAGTTCAATTGA	480	

Dd	421	GGGAAGCTTTGAGAGATCTCGGACACCCAACTACAGCAGTGTTCATGAGATTCAATGA	480
Oy	481	ATTATGGCATAGATCTTGGGAAAAATTGGCGAGTGTACATTTACAAAGATGCGTCAATA	540
Dd	481	ATTATGGCATAGATCTTGGGAAAAATTGGCGAGTGTACATTTACAAAGATGCGTCAATA	540
Oy	541	GTGCTCTAAGAGTTTGTTCAGTGGCTCACTTCGGCTTAAATATGCAGAAATTCATGCTGTC	600
Dd	541	GTGCTCTAAGAGTTTGTTCAGTGGCTCACTTCGGCTTAAATATGCAGAAATTCATGCTGTC	600
Oy	601	AGCGTGGTATTTTCATTCATTCAGTGAAGTGTTCAGGACCTCTCCCATTTGAAGCTA	660
Dd	601	AGCGTGGTATTTTCATTCATTCAGTGAAGTGTTCAGGACCTCTCCCATTTGAAGCTA	660
Oy	661	TAAATTATTTGGACCAAGGAGCCGTGAATATTCACATTTAATTCATTCAGTCTC	720
Dd	661	TAAATTATTTGGACCAAGGAGCCGTGAATATTCACATTTAATTCATTCAGTCTC	720
Oy	721	CTTCGTGGAAGAGACTTTGTGAAGAAATTTGTGCTGAGATGTGCAATCTGGG	780
Dd	721	CTTCGTGGAAGAGACTTTGTGAAGAAATTTGTGCTGAGATGTGCAATCTGGG	780
Oy	781	TTGGCAGCTTGTTCAGATTACCCAAAAGAGATGCTTCTACTGAGATGAATTCAGTTTCTC	840
Dd	781	TTGGCAGCTTGTTCAGATTACCCAAAAGAGATGCTTCTACTGAGATGAATTCAGTTTCTC	840
Oy	841	GCATCATTTATGAAAGAACTACCCAAATTAATGCTTAATTTCACTTGGTACTCTTTT	900
Dd	841	GCATCATTTATGAAAGAACTACCCAAATTAATGCTTAATTTCACTTGGTACTCTTTT	900
Oy	901	TTAATTATGCTTGGAAATGCTTCATTTAATGACATTTTAAATGAATTTATGTAACATCT	960
Dd	901	TTAATTATGCTTGGAAATGCTTCATTTAATGACATTTTAAATGAATTTATGTAACATCT	960
Oy	961	GAATGAAAGCAAGCACTTAATATGTTTACAGACCAAGTGTGATTTCCACAGTGTTTAA	1020
Dd	961	GAATGAAAGCAAGCACTTAATATGTTTACAGACCAAGTGTGATTTCCACAGTGTTTAA	1020
Oy	1021	ATCTAGCATTTATTCATTTTGTGCTCAATCAAAAGTGTTCATATTTTTTAGTGGT	1080
Dd	1021	ATCTAGCATTTATTCATTTTGTGCTCAATCAAAAGTGTTCATATTTTTTAGTGGT	1080
Oy	1081	AGAAATACCTTCTTCATAGTCACATTTCTGCAACCTATATAATTTGGAATATTTGTGCTC	1144
Dd	1081	AGAAATACCTTCTTCATAGTCACATTTCTGCAACCTATATAATTTGGAATATTTGTGCTC	1144
Oy	1141	TTTGTGTTTCTCTCTAGTATAGCAATTTTAAAAAATATAAAGCTACCAATCTTTGAC	1200
Dd	1141	TTTGTGTTTCTCTCTAGTATAGCAATTTTAAAAAATATAAAGCTACCAATCTTTGAC	1200
Oy	1201	AATTGTATAAGTTTAAAGATTTTATTTATATCTGTTAAATTAATTAATTTATTCACACA	1257
Dd	1201	AATTGTATAAGTTTAAAGATTTTATTTATATCTGTTAAATTAATTAATTTATTCACACA	1257
RESULT 10			
ACAS8870			
ACAS8870 standard; cDNA, 1257 BP.			
ACAS8870;			
10-JUN-2003 (first entry)			
cDNA encoding human secreted polypeptide PRO1550.			
Human; ss; gene; gene therapy; tumour; cancer.			
Homo sapiens.			
US2003013855-A1.			
16-JAN-2003.			

PF 03-MAY-2002; 2002US-0063616.
 XX 30-DEC-1998; 98KR-0062142.
 PR 08-MAR-1999; 99WO-US05028.
 PR 14-MAY-1999; 99WO-US10733.
 PR 30-DEC-1999; 99WO-US31274.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 14-MAY-1999; 99US-0311832.
 PR 25-AUG-1999; 99US-0380137.
 PR 25-AUG-1999; 99US-0380138.
 PR 25-AUG-1999; 99US-0380139.
 PR 25-AUG-1999; 99US-0380142.
 PR 15-SEP-1999; 99US-0397342.
 PR 18-OCT-1999; 99US-0403297.
 PR 12-NOV-1999; 99US-0423844.
 PR 22-AUG-2000; 2000US-0644848.
 PR 18-SEP-2000; 2000US-0646510.
 PR 18-SEP-2000; 2000US-0665350.
 PR 08-NOV-2000; 2000US-0709238.
 PR 20-DEC-2000; 2000US-0747259.
 PR 22-MAR-2001; 2001US-0816744.
 PR 10-MAY-2001; 2001US-0834208.
 PR 10-MAY-2001; 2001US-0854280.
 PR 30-MAY-2001; 2001US-0870574.
 PR 05-JUN-2001; 2001US-0874503.
 PR 29-JUN-2001; 2001US-0908599.
 PR 18-JUL-2001; 2001US-0908827.
 PR 06-DEC-2001; 2001US-0006867.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Eaton DL, Filvaroff E, Gerlitsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WJ;
 XX WPI: 2003-330485/31.
 DR P-PSDB; AB071566.
 DR
 XX
 PT New isolated antibody specifically binding a PRO polypeptide, useful
 PT for the preparation of a medicament for treating disorders with the
 PT aberrant expression or activity of the PRO polypeptide, such as tumor
 PT conditions and cancer -
 PS
 PS Example 4; Page 193-194; 406pp; English.
 XX
 CC The invention relates to an antibody that binds to a polypeptide with a
 CC fully defined sequence given in the specification. The methods and
 CC compositions (containing antibodies that specifically bind a PRO
 CC polypeptide) of the present invention are useful for the preparation of a
 CC medicament for the treatment of disorders associated with the aberrant
 CC expression or activity of the PRO polypeptide, such as tumor conditions
 CC and cancer. They can also be used to generate transgenic or knockout
 CC animals useful in the development and screening of therapeutically useful
 CC reagents. The PRO polypeptides and encoding nucleic acids can be used as
 CC molecular weight markers for protein electrophoresis, chromosome
 CC identification and tissue typing. The PRO polypeptides are useful to
 CC induce angiogenesis e.g wound healing. In the treatment of sports-related
 CC joint problems, articular cartilage defects, osteoarthritis or rheumatoid
 CC arthritis, diabetes, hyperinsulinaemia and hypoinsulinaemia. The
 CC antibodies may be used in various diagnostic, competitive binding and/or
 CC immunoprecipitation assays. The present sequence represents a cDNA
 CC encoding a PRO polypeptide of the invention.
 CC
 XX

SQ Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;
 Query Match 100.0%; Score 1257; DB 25; Length 1257;
 Best Local Similarity 100.0%; Pred. No. 176-251;
 Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GGAGAGAGCGCGCGGGTGAAGGGCATTTGATGACGCTGGCGGCTCGAGCGCG 60
 DB 1 GGAGAGAGCGCGCGGGTGAAGGGCATTTGATGACGCTGGCGGCTCGAGCGCG 60
 QY 61 CGGAGCCAGAGCTGACACACGTTCTCTCTGCTCTCTCTCTCTCTCTCTCTCT 120
 DB 61 CGGAGCCAGAGCTGACACACGTTCTCTCTGCTCTCTCTCTCTCTCTCTCTCT 120
 QY 121 CCCGCGACCCGGGAGACCATGCGACCCAGGCGCCGCGCTCCCGGAGCGCTCCG 180
 DB 121 CCCGCGACCCGGGAGACCATGCGACCCAGGCGCCGCGCTCCCGGAGCGCTCCG 180
 QY 181 GCTCTCTGCT 240
 DB 181 GCTCTCTGCT 240
 QY 241 AGGGAGACCAAAAGGCGAGCTCCGCGAGAGGAGTGGTGAACCTGATATGAAGT 300
 DB 241 AGGGAGACCAAAAGGCGAGCTCCGCGAGAGGAGTGGTGAACCTGATATGAAGT 300
 QY 301 GCTTACAAAGGGCGACAGAGAGTGCCTGGTCGAGAGCGGAGCGGCAATGTTATTC 360
 DB 301 GCTTACAAAGGGCGACAGAGAGTGCCTGGTCGAGAGCGGAGCGGCAATGTTATTC 360
 QY 361 CGGGTACACCTGGGATCCAGGTCGGATGATTTCAAGAGAAAGGGGAAATGCTGA 420
 DB 361 CGGGTACACCTGGGATCCAGGTCGGATGATTTCAAGAGAAAGGGGAAATGCTGA 420
 QY 421 GGGAAAGCTTTGAGAGTCTGAGACACCACTACAGAGGTCATGAGATCATGTA 480
 DB 421 GGGAAAGCTTTGAGAGTCTGAGACACCACTACAGAGGTCATGAGATCATGTA 480
 QY 481 ATTATGCAATAGATCTGGGAAATTTGGGAGTGCATTTCAAAAGATGGCTCAATA 540
 DB 481 ATTATGCAATAGATCTGGGAAATTTGGGAGTGCATTTCAAAAGATGGCTCAATA 540
 QY 541 GTGCTCTAAGATTTTGTTCAGTGGCTCACTTGGCTAAATGCAAAATGATGCTG 600
 DB 541 GTGCTCTAAGATTTTGTTCAGTGGCTCACTTGGCTAAATGCAAAATGATGCTG 600
 QY 601 AGCGTTGATTTTCATTTCAATGAGAGTGAATGTTGAGACCTTCCCAATGAAGTA 660
 DB 601 AGCGTTGATTTTCATTTCAATGAGAGTGAATGTTGAGACCTTCCCAATGAAGTA 660
 QY 661 TAATTTATTTGGACCAAGAGCCCTGAATGAATTCACAAATTAATTCATGCGACT 720
 DB 661 TAATTTATTTGGACCAAGAGCCCTGAATGAATTCACAAATTAATTCATGCGACT 720
 QY 721 CTTCGTGGGAAGGACTTTGTGAAGAAATTTGTGCTGATGATGATTTCTATCTGG 780
 DB 721 CTTCGTGGGAAGGACTTTGTGAAGAAATTTGTGCTGATGATGATTTCTATCTGG 780
 QY 781 TTGGCACTGTTCAATATCCCAAAAGAGATGCTTACAGATGATGATGATGATG 840
 DB 781 TTGGCACTGTTCAATATCCCAAAAGAGATGCTTACAGATGATGATGATGATG 840
 QY 841 GCATCATTTATGAAGAACTACCAAAATTAATGCTTAATTTTCATTTCTACCTTTT 900
 DB 841 GCATCATTTATGAAGAACTACCAAAATTAATGCTTAATTTTCATTTCTACCTTTT 900
 QY 901 TTATTTATGCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 960
 DB 901 TTATTTATGCTTGAATGATGATGATGATGATGATGATGATGATGATGATGATG 960
 QY 961 GAATGAAGAAAGGCTAAATATGTTTACAGACCAAAAGTGTGATTTTACACTGTTTAA 1020
 DB 961 GAATGAAGAAAGGCTAAATATGTTTACAGACCAAAAGTGTGATTTTACACTGTTTAA 1020

QY 1021 ATCTAGCATTTATTCATTTGCTTCATCAATCAAAAGTGTTCATATATTTTGTAGTTGGTT 1080
DB 1021 ATCTAGCATTTATTCATTTGCTTCATCAAAAGTGTTCATATATTTTGTAGTTGGTT 1080
QY 1081 AGAATACCTTCTTCATAGTACATTCCTCAACCTATATTTGGATATTTGTGTCT 1140
DB 1081 AGAATACCTTCTTCATAGTACATTCCTCAACCTATATTTGGATATTTGTGTCT 1140
QY 1141 TTGTTTCTCTCTAGTATAGCATTTTAAAAAATATATAAGCTACATCTTTGTAC 1200
DB 1141 TTGTTTCTCTCTAGTATAGCATTTTAAAAAATATATAAGCTACATCTTTGTAC 1200
QY 1201 AATTTGTAATGTTAAGAAATTTTATATCTGTTAAATATAATTTATTTCCAA 1257
DB 1201 AATTTGTAATGTTAAGAAATTTTATATCTGTTAAATATAATTTATTTCCAA 1257
RESULT 11
ID ACA60423 standard; cDNA; 1257 BP.
AC ACA60423:
AC ACA60423:
XX 11-JUN-2003 (first entry)
DE Novel human secreted and transmembrane protein PRO1550 cDNA.
XX
XX Human: secreted and transmembrane polypeptide; gene: ss
KM chromosome mapping; gene mapping; transgenic animal; knockout animal;
KM therapeutic agent screening; chromosome identification; tissue typing;
KM gene therapy.
XX Homo sapiens.
XX US2003018183-A1.
PN 23-JAN-2003.
XX 01-MAY-2002; 2002US-0063512.
PF 06-DEC-2001; 2001US-0006867.
PR (GENT) GENENTECH INC.
XX Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Matanabe CK, Wood WI;
XX WPI; 2003-330984/31.
DR P-SDB; AB072012.
XX
XX New secreted and transmembrane PRO polypeptides and nucleic acid
PT molecules encoding the polypeptides, useful in gene therapy or
PT preparing a medicament for treating a condition that is responsive to
PT the PRO polypeptide or antibody -
XX
XX Disclosure: Fig 121; 409pp; English.
PS The invention describes novel isolated PRO polypeptides. The PRO
CC polypeptides or anti-PRO antibodies are useful in preparing a medicament
CC for treating a condition that is responsive to the PRO polypeptide or
CC antibody. The PRO nucleotide sequences may be used as hybridisation
CC probes in chromosome and gene mapping, or in generating antisense RNA
CC and DNA. PRO nucleic acids are also useful in preparing PRO polypeptides,
CC in assays to identify other proteins or molecules involved in binding
CC reaction, to generate transgenic animals or knockout animals, which in
CC turn are useful in the development and screening of therapeutically
CC useful reagents, for chromosome identification, and tissue typing. The
CC PRO polypeptides and nucleic acid molecules are also useful in gene
CC therapy, and as molecular weight markers for protein electrophoresis
CC purposes. The anti-PRO antibodies may be used in diagnostic assays for
CC PRO or for the affinity purification of PRO from recombinant cell
CC culture or natural sources. This sequence encodes a novel human

CC secreted and transmembrane PRO polypeptide.
XX Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;
SQ
Query Match 100.0%; Score 1257; DB 25; Length 1257;
Best Local Similarity 100.0%; Pred. No. 1.7e-251;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGAGAGGCGCGGGGTGAAGAGCGCATGATGACACCTCGGCGGCTCGGAGCGCG 60
DB 1 GGAGAGAGGCGCGGGGTGAAGAGCGCATGATGACACCTCGGCGGCTCGGAGCGCG 60
QY CGAGAGCGAGCGGTGACACGCTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB CGAGAGCGAGCGGTGACACGCTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
QY 121 CCGGCGAGCGGGAGAGCCATGCGACCCAGGCCCCCGCCCTCCCGCAGCGGCTCGCG 180
DB 121 CCGGCGAGCGGGAGAGCCATGCGACCCAGGCCCCCGCCCTCCCGCAGCGGCTCGCG 180
QY 181 GCCTCCTGCT 240
DB 181 GCCTCCTGCT 240
QY 241 AGGGGAAGCAAAAGCGCAGCTCCGCGAGAGAGGTGTGGAAGCTGTATATATGAAATGT 300
DB 241 AGGGGAAGCAAAAGCGCAGCTCCGCGAGAGAGGTGTGGAAGCTGTATATATGAAATGT 300
QY 301 GCTTACAGGCGCGACAGAGAGTGTGTGTGAGACGGGAGCCTGGGGCCATGTATTC 360
DB 301 GCTTACAGGCGCGACAGAGAGTGTGTGTGAGACGGGAGCCTGGGGCCATGTATTC 360
QY 361 CCGGTACACCTGGGATCCAGGTCTGGGATGGATTCAAAAGGAAAGGGGAATGTCTGA 420
DB 361 CCGGTACACCTGGGATCCAGGTCTGGGATGGATTCAAAAGGAAAGGGGAATGTCTGA 420
QY 421 GGGAAAGCTTTGAGAGAGTCTTGACACCAAGCTACAAAGAGTGTACAGATTTGA 480
DB 421 GGGAAAGCTTTGAGAGAGTCTTGACACCAAGCTACAAAGAGTGTACAGATTTGA 480
QY 481 ATTATGGCATAGATCTGGGAAATGCGAGGTATCATTTACAAAGATCCGTCAATTA 540
DB 481 ATTATGGCATAGATCTGGGAAATGCGAGGTATCATTTACAAAGATCCGTCAATTA 540
QY 541 GTGCTCAGAGTCTTGTTCAGTGGCTCACTTGCGCTAAATCAGAAATGATGTGTTC 600
DB 541 GTGCTCAGAGTCTTGTTCAGTGGCTCACTTGCGCTAAATCAGAAATGATGTGTTC 600
QY 601 AGCGTGGTATTTTACATTCATGAGAGCTGAATGTTCAGGACCTCTCCATTTGAAGCTA 660
DB 601 AGCGTGGTATTTTACATTCATGAGAGCTGAATGTTCAGGACCTCTCCATTTGAAGCTA 660
QY 661 TAATTTATTTGGACCAAGAGAGCCCTGAATTAATTAATTAATTAATTAATTAATTA 720
DB 661 TAATTTATTTGGACCAAGAGAGCCCTGAATTAATTAATTAATTAATTAATTAATTA 720
QY 721 CTCTGTGAGAGACTTTGTGAAGAAATGCTGTGATTAATTAATTAATTAATTAATTA 780
DB 721 CTCTGTGAGAGACTTTGTGAAGAAATGCTGTGATTAATTAATTAATTAATTAATTA 780
QY 781 TTGGCACTGTTGATTTACCAAAAGAGAGATCTCTACTGTGATTAATTAATTAATTA 840
DB 781 TTGGCACTGTTGATTTACCAAAAGAGAGATCTCTACTGTGATTAATTAATTAATTA 840
QY 841 GCATCATTTATGGAAGAACTACCAAAATTAATTAATTAATTAATTAATTAATTAATTA 900
DB 841 GCATCATTTATGGAAGAACTACCAAAATTAATTAATTAATTAATTAATTAATTAATTA 900
QY 901 TTATTTAGCTTGAAGAGTCTCACTTAATTAATTAATTAATTAATTAATTAATTAATTA 960
DB 901 TTATTTAGCTTGAAGAGTCTCACTTAATTAATTAATTAATTAATTAATTAATTAATTA 960
QY 961 GAATGAAAGCAAAAGCTAAATATATGTTCAGACCAAGAGTGTGATTCACATCTTTTAA 1020

Db 961 GAAAGAAAGCAAGCTAAATATGTTACAGACCAAGCTGATTCTACACTGTTTAA 1020
Qy 1021 ATCTAGCATTTATTCATTTTGGCTTCATCAAAAGTGTTCATATTTTATTTAGTGGT 1080
Db 1021 ATCTAGCATTTATTCATTTTGGCTTCATCAAAAGTGTTCATATTTTATTTAGTGGT 1080
Qy 1081 AGAATACTTCTTCATAGTACATCTCTCAACCTATATATTTGGAAATTTGTGTGCT 1140
Db 1081 AGAATACTTCTTCATAGTACATCTCTCAACCTATATATTTGGAAATTTGTGTGCT 1140
Qy 1141 TTGTTTCTCTAGTATAGCATTTTAAATTAATTAAGTACCATCTTGTGAC 1200
Db 1141 TTGTTTCTCTAGTATAGCATTTTAAATTAATTAAGTACCATCTTGTGAC 1200
Qy 1201 AATTTGTAATGTATAGAAATTTTATATCTGTATTAATTAATTAATTTTCCACA 1257
Db 1201 AATTTGTAATGTATAGAAATTTTATATCTGTATTAATTAATTAATTTTCCACA 1257

RESULT 12
ACA63433
ID ACA63433 standard; cDNA; 1257 BP.
XX ACA63433;
AC
XX 13-JUN-2003 (first entry)
DT
XX cDNA encoding human PRO polypeptide #61.
DE
XX
KW Human: PRO polypeptide; secreted and transmembrane protein;
KW anti-PRO antibody; diagnostic assay; gene expression; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003023042-A1.
PD 30-JAN-2003.
XX
PF 01-MAY-2002; 2002US-0063502.
PR 06-DEC-2001; 2001US-0006867.
XX
PA (GETH) GENENTECH INC.
PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
XX MPI: 2003-331484/31.
DR P-PSDB; AB072169.
XX
XX Novel monoclonal antibody that binds to secreted and transmembrane
PT polypeptide, useful for detecting and purifying the polypeptide and
PT also for treating conditions responsive to the antibody
XX
PS Disclosure: Fig 121; 408pp; English.
XX
XX The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The
CC PRO polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides and polynucleotides are useful for preparing a
CC medicament useful in the treatment of a condition responsive to
CC anti-PRO antibody. Anti-PRO antibodies are useful in diagnostic
CC assays for PRO, by detecting its expression in specific cells,
CC tissues or serum, and for affinity purification of PRO from
CC recombinant cell culture or natural sources. ACA63373-ACA63456
CC represent cDNA sequences encoding the human PRO polypeptides of
CC the invention.
XX
SQ Sequence 1257 BP; 324 A; 264 C; 299 G; 370 T; 0 other;

Query Match 100.0%; Score 1257; DB 25; Length 1257;
Best Local Similarity 100.0%; Pred. No. 1.7e-251;

Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 GGAGAGAGCGCGGGGTGAAGAGCGCATGATGACAGCTCGCGCGCGCTGGAGCGCG 60
Db 1 GGAGAGAGCGCGGGGTGAAGAGCGCATGATGACAGCTCGCGCGCGCTGGAGCGCG 60
Qy 61 CGAGAGAGAGCGCGGGGTGAAGAGCGCATGATGACAGCTCGCGCGCGCTGGAGCGCG 120
Db 61 CGAGAGAGAGCGCGGGGTGAAGAGCGCATGATGACAGCTCGCGCGCGCTGGAGCGCG 120
Qy 121 CCGGAGAGAGCGCGGGGTGAAGAGCGCATGATGACAGCTCGCGCGCGCTGGAGCGCG 180
Db 121 CCGGAGAGAGCGCGGGGTGAAGAGCGCATGATGACAGCTCGCGCGCGCTGGAGCGCG 180
Qy 181 GCGTCTGCT 240
Db 181 GCGTCTGCT 240
Qy 241 AGGGAG 300
Db 241 AGGGAG 300
Qy 301 GCTTACAG 360
Db 301 GCTTACAG 360
Qy 361 CGGGTACAG 420
Db 361 CGGGTACAG 420
Qy 421 GGGAAAGGTTTGAAG 480
Db 421 GGGAAAGGTTTGAAG 480
Qy 481 AATATGCGATGATCTTGGGAAATTTGGGAGTGTATATTAACAAGATGCTTCAATA 540
Db 481 AATATGCGATGATCTTGGGAAATTTGGGAGTGTATATTAACAAGATGCTTCAATA 540
Qy 541 GTGCTCTAAGAGTGTGTCTAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 600
Db 541 GTGCTCTAAGAGTGTGTCTAGTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 600
Qy 601 AGCGTGTATTTTCAATTTCAATTTCAATTTCAATTTCAATTTCAATTTCAATTTCAAT 660
Db 601 AGCGTGTATTTTCAATTTCAATTTCAATTTCAATTTCAATTTCAATTTCAATTTCAAT 660
Qy 661 TAAATTTATTTGAGCAAG 720
Db 661 TAAATTTATTTGAGCAAG 720
Qy 721 CTCTGTGAG 780
Db 721 CTCTGTGAG 780
Qy 781 TTGGACCTGTTCAGATTAACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
Db 781 TTGGACCTGTTCAGATTAACCAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
Qy 841 GCATCATTTTGAAG 900
Db 841 GCATCATTTTGAAG 900
Qy 901 TTAATTTATTTGAGCAAG 960
Db 901 TTAATTTATTTGAGCAAG 960
Qy 961 GAATGAAG 1020
Db 961 GAATGAAG 1020
Qy 1021 ATCTAGCATTTATTCATTTTGGCTTCATCAAAAGTGTTCATATTTTATTTAGTGGT 1080
Db 1021 ATCTAGCATTTATTCATTTTGGCTTCATCAAAAGTGTTCATATTTTATTTAGTGGT 1080

QY 1081 AGAATCTTCTTCATGACATTCCTCACCCATTAATTTGGAATATGTTGGTCTP 1140
DB 1081 AGAATCTTCTTCATGACATTCCTCACCCATTAATTTGGAATATGTTGGTCTP 1140
QY 1141 TTTGTTTTTCTTGTATAGCATTTTAAAAAATATTAAGTCACCAATCTTGTAC 1200
DB 1141 TTTGTTTTTCTTGTATAGCATTTTAAAAAATATTAAGTCACCAATCTTGTAC 1200
QY 1201 AATTTCTAATGTTAAGCAATTTTATATCTGTTAAATAAAAATTAATTTCCACA 1257
DB 1201 AATTTCTAATGTTAAGCAATTTTATATCTGTTAAATAAAAATTAATTTCCACA 1257
RESULT 13
ABX98335
ID ABX98335 standard; cDNA; 1257 BP.
XX ABX98335;
AC
XX
XX 19-MAY-2003 (first entry)
DE Human cDNA encoding a secreted/transmembrane protein, SEQ ID 365.
XX
XX
KW Human; ss; gene; PRO; secreted protein; transmembrane protein;
KW cytosolic; antiarthritic; osteopathic; adrenal tumour; lung tumour;
KW colon tumour; breast tumour; prostate tumour; rectal tumour;
KW cervical tumour; liver tumour; TNF-alpha release; arthritis;
KW tumour necrosis factor alpha; chondrocyte cell; bone disorder;
KW cartilage disorder; sports injury.
XX
XX Homo sapiens.
XX US2003036156-A1.
XX
XX 20-FEB-2003.
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PF 02-JUL-2002; 2002US-0188767.
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DB	121	CCCGGACCGCGGGACCATGCGACCCGCGCGCGCTCCGCTCCGCTCCGCTCCGCG	180	
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OY	241	AGGGGAAGCAAAAGGCGAGCTCCGCGAGAGGAGTGTGACCTGATATGGAATGT	300	
DB	241	AGGGGAAGCAAAAGGCGAGCTCCGCGAGAGGAGTGTGACCTGATATGGAATGT	300	
OY	301	GCTTACAAAGGCGCAGAGAGTGGCTGTGAGACGGAGCGGCGCAATGTATTC	360	
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OY	481	ATTATGGCATGATCTTGGGAAATTTGGGAGTGTATTAACAAGATGGCTCAATA	540	
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OY	541	GTGCTTAAAGATTTTGTTCAGTGTCTACTTGGCTAAATGCGAATGATGCTGTC	600	
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OY	721	CTTCTGTGAAGACTTTGTGAAGAAATGCTGTGATGATGATGATGATGATGATG	780	
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OY	841	GCATCATTTATGAAGAACTACCAAAATTAATGCTTATTTCAATTTGCTACCTTTT	900	
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 KM prostate tumour; rectal tumour; cervical tumour; liver tumour;
 KM gene; ss.
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PR	02-SEP-1998; PR	98US-098723P 98US-098803P		
PR	02-SEP-1998; PR	98US-098803P 98US-098821P		

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 20, 2003, 12:23:44 ; Search time 2967 Seconds

(without alignments)
10296.841 Million cell updates/sec

Title: US-09-938-418-2

Perfect score: 1257
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Scoring table:

IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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3: em_estlin:*
4: em_estnu:*
5: em_estrov:*
6: em_estropl:*
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27: em_gss_vrl:*
28: gb_gss1:*
29: gb_gss2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	999	79.5	1201	9	AL532456
3	951.8	75.7	1190	9	AL575307
4	946.6	75.3	1201	9	AL564395

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6	861.6	68.5	1201	13	BX387691
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8	842.2	67.0	1132	12	BM560093
9	815.2	64.9	903	12	BT763295
10	811.2	64.5	887	9	AL544722
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13	705.4	56.1	1037	12	BM915926
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ALIGNMENTS

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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 1288)
AUTHORS Strausberg, R.
TITLE Direct Submission
JOURNAL Submitted (03-JAN-2002) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
USA
REMARK NIH-MGC Project URL: <http://mgc.ncl.nih.gov>
Contact: MGC help desk
Email: cgabs-r@mail.nih.gov
Tissue Procurement: ATCC/DCPD/TPP
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Institute for Systems Biology
<http://www.systemsbio.org>
contact: amadan@systemsbiology.org

Anup Madan, Jessica Fahey, Erin Helton, Mark Kettelman, Anuradha Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LINL at: <http://image.lnl.gov>
 Series: IRAL Plate: 24 Row: 1 Column: 7
 This clone was selected for full length screening because it passed the following selection criteria: Hexamer frequency ORF analysis
 This clone has the following problem: no cloning site / microdeletion.

FEATURES
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 VERSION AL532456.2 GI:31070288
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 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1201)
 AUTHORS Li, W.-B., Gruber, C., Jesse, J. and Polayes, D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished
 COMMENT On Feb 13, 2001 this sequence version replaced gi:12795949.
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - France
 Email: secref@genoscope.cns.fr, Web: www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 4941.f for
 more information about this cluster, see
<http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CS0DM014G100P1&cluster=4941.f>
 Feng Liang Email: filiang@life.technet.com URL: <http://fulllength.invitrogen.com> URL: <http://invitrogen.com>
 Faraday Avenue Genoscope sequence ID: CS0DM014G100P1.

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 DEFINITION

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 VERSION AL564395
 KEYWORDS GI:31288373
 SOURCE
 ORGANISM Homo sapiens (human)
 REFERENCE
 AUTHORS L.M.B., Gruber,C., Jessee,J. and Polayes,D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished
 COMMENT On Feb 16, 2001 this sequence version replaced gi:12914757.
 CONTACT Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 4941.f For
 more information about this cluster, see:
 http://www.genoscope.cns.fr/
 cgi-bin/cluster.cgi?seq=CS0DM014DGI0NP1&cluster=4941.f. Contact :
 Feng Liang Email : fliang@lifetech.com URL :
 http://fulllength.invitrogen.com/invitrogen Corporation 1600
 Faraday Avenue genoscope sequence ID : CS0DM014DGI0NP1.
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 vector. Library was not normalized."
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VERSION	AL551834.2		
KEYWORDS	EST.		
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AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.		
TITLE	1. W.B., Gruber, C., Jesse, J. and Polayes, D.		
JOURNAL	Full-length cDNA libraries and normalization		
COMMENT	Unpublished		
	On Feb 15, 2001 this sequence version replaced gi:12890161.		
	Contact: Genoscope		
	Genoscope - Centre National de Sequencage		
	BP 191 91006 Evry cedex - France		
	Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr		
	Library was constructed by Life Technologies, a division of		
	Invitrogen. This sequence belongs to sequence cluster 4341.f For		

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more information about this cluster, see
http://www.genoscope.cns.fr/
cgi-bin/cluster.cgi?seq=CSDD1061BA10Qpl&cluster=4941.f. Contact
Reng Liang Email : lliang@life.techn.com URL :
http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
Faraday Avenue Genoscope sequence ID : CSDD1061BA10Qpl.
FEATURES
location/Qualifiers
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Query Match	72.7%;	Score 914.2;	DB 9;	Length 1201;
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[illegible]

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 QY 825 TGAATTCAGTTCCTGCGATCATATTATGAGAACTACCAAAATTAATGCTTAAATTTTCA 884
 DB 840 TGAATTCAGTTCCTGCGATCATATTATGAGAACTACCAAAATTAATGCTTAAATTTTCA 899
 QY 885 TTTGCTACCTCTTTTATTAATGCTTGAATGCTTCACTTAAATGACATTTTAAATA 944
 DB 900 TTTGCTACCTCTTTTATTAATGCTTGAATGCTTCACTTAAATGACATTTTAAATA 959
 QY 945 GTTATATATACATCTGAATGAAGAAAGCAAGCTAAATATGTTTCAAGACCAAGTGCAT 1004
 DB 960 GTTATATATACATCTGAATGAAGAAAGCAAGCTAAATATGTTTCAAGACCAAGTGCAT 1015
 QY 1005 TTTCACACTGTTTAAATTCAGCAATTTTCATTTTCTCAATCAAAAGTGGTTTCAATA 1064
 DB 1016 ATTTCACACTGTTTAAATTCAGCAATTTTCTCAATTTTCTCAATTTTCTCAATTTT 1071
 QY 1065 TTTTCTTCTAGTGGTTA 1081
 DB 1072 TTTTCTTCTAGTGGTTA 1088
 RESULT 6
 BX387691 1201 bp mRNA linear EST 08-MAY-2003
 LOCUS BX387691 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
 DEFINITION clone CSOD1037YD19 5-PRIME, mRNA sequence.
 ACCESSION BX387691
 VERSION BX387691.1 GI:30461701
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 REFERENCE 1 (bases 1 to 1201)
 AUTHORS Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished
 COMMENT Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 Evry cedex - France
 Email: seqref@genoscope.cns.fr, Web : www.genoscope.cns.fr
 Library was constructed by life technologies, a division of invitrogen. This sequence belongs to sequence cluster 4941.f For more information about this cluster, see
 http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CS0A1037CB100P1&cluster=4941.f. Contact :
 Feng Liang Email : fliang@lifetech.com URL :
 http://fulllength.invitrogen.com/InvitrogenCorporation1600
 Faraday Avenue Genoscope sequence ID : CS0A1037CB100P1.
 location/Qualifiers
 1. 1201
 /organism="Homo sapiens"
 /mol_type="RNA"
 /db_xref="taxon:9606"
 /clone="CSOD1037YD19"
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 /clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
 /note="1st strand cDNA was primed with a NotI-oligo(dT) primer. Five prime end enriched, double-strand cDNA was digested with NotI and cloned into the NotI and EcoRV sites of the pCMVSPORT 6 vector. Library was normalized."
 BASE COUNT 286 a 257 c 274 g 306 t 78 others
 ORIGIN
 Query Match 68.5%; Score 861.6; DB 13; Length 1201;
 Best Local Similarity 95.7%; Pred. NO. 2,4e-133;
 Matches 915; Conservative 10; Mismatches 26; Indels 5; Gaps 4;
 QY 45 CGCGCTCGGAGCGCGGCGGAGCCAGACGCTGACCACTTCTCTCGGTCTCTCCGCG 104

DB 57 CGGATCGGAGCGCGGCGGAG-CAAGACGCTGACACGTTCTCTCTCGGTCTCTCCGCG 115
 QY 105 CTTCAGCTCCGCGCTGCGCCGCGACGCGGAGCCATGAGACCCGAGGCGCCGCGCTCC 164
 DB 116 CTTCAGCTCCGCGCTGCGCCGCGACGCGGAGCCATGAGACCCGAGGCGCCGCGCTCC 175
 QY 165 CGCGAGCGGCTCCGCGGCTCTCTGCTCTCTGCTGAGAGCTGCCGCGCGCTGAGC 224
 DB 176 CGCGAGCGGCTCCGCGGCTCTCTGCTCTCTGCTGAGAGCTGCCGCGCGCTGAGC 235
 QY 225 GCTCTGAGATCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 284
 DB 236 GCTCTGAGATCCCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 294
 QY 285 CTGTATATATGAGATGCTTACCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 344
 DB 295 CTGTATATATGAGATGCTTACCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 354
 QY 345 GGGGCCAATGTTATCCGGGTACACCTGGGATCCAGGTCGGGATGATTCAAAGAGAA 404
 DB 355 GGGGCCAATGTTATCCGGGTACACCTGGGATCCAGGTCGGGATGATTCAAAGAGAA 414
 QY 405 AAGGGGAAATGCTGAGGAGAAAGCTTGAAGAGTCTGAGACCCAGCTACAGCAATGT 464
 DB 415 AAGGGGAAATGCTGAGGAGAAAGCTTGAAGAGTCTGAGACCCAGCTACAGCAATGT 474
 QY 465 TCATGAGATTCATGATTAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 524
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 DB 595 AAGATGCTCAATAGTGTCTAAGAGTTTGTTCAGTGGCTACCTCGCTCAATATATG 654
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 DB 655 CTTCAGCTCCGCGCTGCGCCGCGACGCGGAGCCATGAGACCCGAGGCGCCGCGCTCC 714
 QY 705 AATATTCATGCACTTCTCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 764
 DB 715 AATATTCATGCACTTCTCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 774
 QY 765 GATGTCTATCTGCGTGGTGGCACTTGTTCAGATTACCCAAAGAGATGCTTCTACTGGA 824
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 DB 835 TGAATTCAGTTCCTGCGATCATATTATGAGAACTACCAAAATTAATGCTTAAATTTTCA 894
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 DB 895 TTTGCTACCTCTTTTATTAATGCTTGAATGCTTCACTTAAATGACATTTTAAATA 953
 QY 945 GTTATATATACATCTGAATGAAGAAAGCAAGCTAAATATGTTTCAAGACCAAGTGCAT 1000
 DB 954 GTTATATATACATCTGAATGAAGAAAGCAAGCTAAATATGTTTCAAGACCAAGTGCAT 1007
 RESULT 7
 BX387690/c 1201 bp mRNA linear EST 08-MAY-2003
 LOCUS BX387690 Homo sapiens PLACENTA COT 25-NORMALIZED Homo sapiens cDNA
 DEFINITION clone CSOD1037YD19 3-PRIME, mRNA sequence.
 ACCESSION BX387690
 VERSION BX387690.1 GI:30461700
 KEYWORDS EST.
 SOURCE Homo sapiens (human)

ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1201)
 AUTHORS Li, W.B., Gruber, C., Jessee, J. and Polayes, D.
 TITLE Full-length cDNA libraries and normalization
 JOURNAL Unpublished
 COMMENT Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 Evry cedex - France
 Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 4941.f for
 more information about this cluster, see
 http://www.genoscope.cns.fr/
 cgi-bin/cluster.cgi?seq=CS0AI037CB10NP1&cluster=4941.f. Contact :
 Peng Liang Email: filiang@life.com URL :
 http://fulllength.invitrogen.com/Invitrogen Corporation 1600
 Faraday Avenue Genoscope sequence ID : CS0AI037CB10NP1.

FEATURES
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 /organism="Homo sapiens"
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 /db_xref="taxon:9606"
 /clone="CS0DI037YD19"
 /tissue_type="PLACENTA COT 25-NORMALIZED"
 /clone_lib="Homo sapiens PLACENTA COT 25-NORMALIZED"
 /note="1st strand cDNA was primed with a NotI-colligodt
 primer. Five prime end enriched, double-strand cDNA was
 digested with Not I and cloned into the Not I and EcoR V
 sites of the pCMVSPORT 6 vector. Library was normalized."

BASE COUNT 358 a 232 c 212 g 308 t 91 others
 ORIGIN

Query Match 67.0%; Score 842.6; DB 13; Length 1201;
 Best Local Similarity 85.6%; Pred. No. 3.5e-130;
 Matches 946; Conservative 22; Mismatches 129; Indels 8; Gaps 4;

146 CCAGGCGCCCGCCGCTCCCGCCGACGCGCGCGCGCTGCTGCTGCTGCTGCA 205
 1097 YCGVGTSCCRKAKGCGGACATGTACCAGGCCCGCCGCTGAGCGTCCGCTCG 1038
 206 GCTGCGCCGCGCGCTGAGCGCTGAGATCCCAAGGGAAGCAAAAGCGCGAGTCG 265
 1037 CGCTTCGCTGTGTCRCAGCGCGCTGTCGCTTAKATCCCARGGAAGCAAAAGCGCAG 978
 266 CGAGAGGAGGAGTGTGGAAGCTGTATATGAGATGTGTACAAAGGCGCAGGAGTGC 325
 977 CCCGCAAGAGAGTGTGACCTKATATGATGTGCT-ACAGGCGCAGCAKAGTGC 920
 326 TGTGTCAGACGAGCGCTGCGGCAATGTATTCGCGGTACACCTGGATCCAGAGTGC 385
 919 TG--TGCATACGAGAGCCCTGGGCAATGCGATTCGCG-ACACTGTGATCCAGAGTGC 865
 386 GGATGGATTCAGAGAGAAAGGGGGAATGTCTGAGGGAAGCTTTGAGAGTCTCTGCAC 445
 864 GGAT-GAATTCAGAGAGAAAGGGGGAATGTCTGAGGGAAGCTTTGAGAGTCTCTGCAC 806
 446 ACCCAATACAGAGAGTGTGATGATTCATGATATGATGATGATGATGATGATGAT 505
 805 ACCCAATACAGAGAGTGTGATGATTCATGATATGATGATGATGATGATGATGAT 746
 506 TCGGAGATGATACATTCAGAGAGAGTGTGATGATGATGATGATGATGATGATGAT 565
 745 TCGGAGATGATACATTCAGAGAGAGTGTGATGATGATGATGATGATGATGATGAT 686
 566 CTCAGTGGCTTAAATGACAGAAATGATGCTGTACGCGTGTGATTCACATTCAGTGC 625
 685 CTCAGTGGCTTAAATGACAGAAATGATGCTGTACGCGTGTGATTCACATTCAGTGC 626
 626 AGCTGAATGTCAGAGAGCTTCCATTCAGAGAGCTTAAATTCATTCAGAGAGAGAGCC 685
 625 AGCTGAATGTCAGAGAGCTTCCATTCAGAGAGCTTAAATTCATTCAGAGAGAGAGCC 566

686 TGAATGATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 745
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 746 AATGAGTGTGATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 805
 505 AATGAGTGTGATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 446
 806 AGGAGATGCTTACGATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 865
 445 AGGAGATGCTTACGATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 386
 866 AATAAGTGTTCATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 925
 385 AATAAGTGTTCATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 326
 926 TAAATGACATTCATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 985
 325 TAAATGACATTCATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 266
 986 TTACAGACCAAGTGTGATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 1045
 265 TTACAGACCAAGTGTGATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 206
 1046 ATCAAAAGTGTTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 1105
 205 ATCAAAAGTGTTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 146
 1106 CTCGACCTATATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 1165
 145 CTCGACCTATATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 86
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 1226 TTTTAAAAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAGCTTAAATTCAGAGAG 1250
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Db

RESULT 8
 BM560093 1132 bp mRNA linear EST 20-FEB-2002
 LOCUS AGENCOURT.6592628 NIH_MGC_41 Homo sapiens cDNA IMAGE:5476455
 DEFINITION 5', mRNA sequence.
 ACCESSION BM560093
 VERSION BM560093.1 GI:18804229
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1132)
 AUTHORS NIH-MGC http://mgi.nhl.nih.gov/.
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cgabbs-remail.nih.gov
 Tissue Procurement: DCTD/DP
 cDNA Library Preparation: Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 Plate: ILCM1992 row: 0 column: 16
 High quality sequence stop: 638.

FEATURES
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/db_xref="taxon:9606"
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/lab_host="DH10B (phage-resistant)"
/clone_id="NIH_MGC_41"
/note="Organ: skin; Vector: pOTB7; Site_1: XhoI; Site_2:
EcoRI; cDNA made by oligo-dT priming. Directionally cloned
into EcoRI/XhoI sites using the following 5' adaptor:
GGCAGCAG(G). Library constructed by Ling Hong in the
laboratory of Gerald M. Rubin (University of California,
Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
SuperScript II RT (Life Technologies). Note: this is a
NIH_MGC library."
BASE COUNT      278 a      260 c      297 g      297 t
ORIGIN
Query Match      67.0%; Score 842.2; DB 12; Length 1132;
Best Local Similarity 96.1%; Pred. No. 4,1e-130;
Matches 895; Conservative 0; Mismatches 33; Indels 3; Gaps 3;

QY 52 GGAGCGGCGGAGGAGCCAGACGCTGACCAAGTTCTCTCTCCGCTCCGCTCCAGC 111
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DB 1 GGAGCGGCGGAGGAGCCAGACGCTGACCAAGTTCTCTCTCCGCTCCGCTCCAGC 60
    |||||

QY 112 TCCGCGCTGCCGCGGAGCGGAGCCAGTGGAGCCGCGCGCGCGCGCGCGCGCGC 171
    |||||
DB 61 TCCGCGCTGCCGCGGAGCGGAGCCAGTGGAGCCGCGCGCGCGCGCGCGCGCGC 120
    |||||

QY 172 GGCCTCCGCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 231
    |||||
DB 121 GGCCTCCGCGGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 180
    |||||

QY 232 AGATCCCCAGAGGAGCAAAAGCCGACGCTCCGCGCAGAGGAGGTGTGACCTGTATA 291
    |||||
DB 181 AGATCCCCAGAGGAGCAAAAGCCGACGCTCCGCGCAGAGGAGGTGTGACCTGTATA 240
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QY 292 ATGGAATGTGCTTCAAGAGGCGCAGAGAGTGGCTGGTGGAGAGGAGCGCTGGGCGCA 351
    |||||
DB 241 ATGGAATGTGCTTCAAGAGGCGCAGAGAGTGGCTGGTGGAGAGGAGCGCTGGGCGCA 300
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QY 352 ATGTTATTCGGGCTACACCTGGAGTCCAGTCCGAGTGGATGATTCAAAGAGAGAGGGG 411
    |||||
DB 301 ATGTTATTCGGGCTACACCTGGAGTCCAGTCCGAGTGGATGATTCAAAGAGAGAGGGG 360
    |||||

QY 412 AATGTCTGAGGAGGAGCTTTGAGAGATCTCTGAGACCCACTACAGAGCTGTTCATGGA 471
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DB 361 AATGTCTGAGGAGGAGCTTTGAGAGATCTCTGAGACCCACTACAGAGCTGTTCATGGA 420
    |||||

QY 472 GTTCATGAATTTATGATAGATCTTGGGAAATTTGGGAGTGTATTTACAAAGATGC 531
    |||||
DB 421 GTTCATGAATTTATGATAGATCTTGGGAAATTTGGGAGTGTATTTACAAAGATGC 480
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QY 532 GTTCAAAATAGTCTCTAGAGTCTTGTCTAGTGGCTCACTCGGCTAAATGACAGAAATG 591
    |||||
DB 481 GTTCAAAATAGTCTCTAGAGTCTTGTCTAGTGGCTCACTCGGCTAAATGACAGAAATG 540
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QY 592 CATCTGTGAGCGTTGGTATTTTCAATTCAATGAGCTGAATGTTTACAGAGCTCTTCCCA 651
    |||||
DB 541 CATCTGTGAGCGTTGGTATTTTCAATTCAATGAGCTGAATGTTTACAGAGCTCTTCCCA 600
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QY 652 TTGAAGCTATTAATTTATTTGGAGCAAGAGCCCTGAATTAATTTCAATTAATATTC 711
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DB 601 TTGAAGCTATTAATTTATTTGGAGCAAGAGCCCTGAATTAATTTCAATTAATATTC 660
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QY 712 ATCCACATCTCTCTGTGGAAGACTTTGTGAAGAAATTTGGTGGATTTAGTATGATGTG 771
    |||||
DB 661 ATCCACATCTCTCTGTGGAAGACTTTGTGAAGAAATTTGGTGGATTTAGTATGATGTG 720
    |||||

QY 772 CTATCTGGG- TTGGCACTTGTTCAGATTACCAAAAGAGATGCTTCTACTGATGAT 830
    |||||
DB 721 CTATCTGGGTTGGCACTTGTTCAGATTACCAAAAGAGATGCTTCTACTGATGAT 780
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QY 831 TCAGTTTCTGCAATCATTTATTTGAAGAACTACCAAAATTAATGCTTTAATTTTCAATTGCT 890
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DB 781 TCAGTTTCTGCAATCATTTATTTGAAGAACTACCAAAATTAATGCTTTAATTTTCAATTGCT 840
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QY 891 ACCG-CTTTTATTTATTTATGCTTTGAGT-GGTTCATTAATGACATTTAAATTAATGATTT 948
    |||||
DB 841 ACCGCTTTTATTTATTTATGCTTTGAGT-GGTTCATTAATGACATTTAAATTAATGATTT 900
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QY 949 ATGTATACATCTGAATGAAAAAGCAAGCTTA 979
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DB 901 TATGGAATTAACCTCGGAATGAAAAAGCAAA 931
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RESULT 9
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LOCUS        603047656F1 NIH_MGC_116 Homo sapiens cDNA clone IMAGE:5188069 5',
DEFINITION   mRNA sequence.
ACCESSION    BI763295
VERSION      BI763295.1 GI:15754873
KEYWORDS     EST.
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
Tissue Procurement: Life Technologies, Inc.
Contact: Robert Strausberg, Ph.D.
Email: csapbs@email.nih.gov
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
REFERENCE    1 (bases 1 to 903)
AUTHORS     NIH-MGC http://mgc.ncl.nih.gov/.
TITLE       Mammalia: Eutheria: Primates: Catarrhini: Hominoidea: Homo.
JOURNAL     National Institutes of Health, Mammalian Gene Collection (MGC)
COMMENT      Unpublished
Contact: Robert Strausberg, Ph.D.
Email: csapbs@email.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.lnl.gov
plate: LLM11469 row: 0 column: 14
High quality sequence stop: 875.
Location/Qualifiers
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/db_xref="taxon:9606"
/clone="IMAGE:5188069"
/lab_host="DH10B"
/clone_id="NIH_MGC_116"
/note="Organ: pooled colon, kidney, stomach; Vector:
pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 49 yo
female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (EcoRV site is
destroyed upon cloning). Average insert size 1.4 kb,
insert size range 1-3 kb. Library is normalized and
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH_MGC library."
BASE COUNT      274 a      137 c      178 g      313 t
ORIGIN
Query Match      64.9%; Score 815.2; DB 12; Length 903;
Best Local Similarity 96.4%; Pred. No. 1.3e-125;
Matches 855; Conservative 0; Mismatches 29; Indels 3; Gaps 2;

QY 362 GGTACACCTGGAGATCCAGTCCGAGTGTATTAAGGAGAAAGGGGGAATCTGAG 421
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DB 1 GGTACACCTGGAGATCCAGTCCGAGTGTATTAAGGAGAAAGGGGGAATCTGAG 60
    |||||

QY 422 GGAAGCTTTGAGAGTCTCGAGACCACTACAGACAGTGTTCATGAGTTCATGAA 481
    |||||
DB 61 GGAAGCTTTGAGAGTCTCGAGACCACTACAGACAGTGTTCATGAGTTCATGAA 120
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Db 720 GAAGACTTTGTAGAGGATTTGGCTGGATTAGGATGTTGCTATCTGGCTGGCACT 779
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Db 780 TGTTCAGATTACCCAAAGAGATGCTTCTACTGGATGGAATTCAGTTTCGCATCAT 839
QY 849 ATTGAAGACTACCCAAATTAATGTTTATTTTTCATTTGCTACTCT 896
Db 840 ATTGAAGACTACCCAAATTAATGTTTATTTTTCATTTGCTACTCT 887

RESULT 11
LOCUS B0425266 851 bp mRNA linear EST 23-MAY-2002
DEFINITION AGENCOURT_7912803 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6150166
5', mRNA sequence.
ACCESSION B0425266
VERSION B0425266.1 GI:21120581
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE NIH-MGC http://mgc.ncl.nih.gov/
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC/DCTD/DRP
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1AM13484 row: f column: 23
High quality sequence stop: 670.

FEATURES
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/db_xref="taxon:9606"
/clone="IMAGE:6150166"
/tissue_type="melanotic melanoma"
/lab_host="DH10B (phage-resistant)"
/clone_id="NIH_MGC_72"
/note="Organ: skin; Vector: pCMV-SPORT6; Site: 1: NotI;
Site: 2: SalI; Cloned unidirectionally. Primer: oligo dt.
Average insert size 2 kb. Library constructed by Life
Technologies."
BASE COUNT 186 a 224 c 258 g 183 t
ORIGIN

Query Match 58.8%; Score 739.4; DB 13; Length 851;
Best Local Similarity 99.1%; Pred. No. 5e-113;
Matches 754; Conservative 0; Mismatches 6; Indels 1; Gaps 1;

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Db 36 GAGGCGGCGGGTAAAGGCGCATTTGATGACGCTGGCGGGCTCGAGAGCGGGCGAG 95
QY 66 CCAGAGCGTGAACACGCTTCTCTCTGCTCTCTCGGCTCCAGCTCCGCGGCTGCCGG 125
Db 96 CCAGAGCGTGAACACGCTTCTCTCTGCTCTCTCGGCTCCAGCTCCGCGGCTGCCGG 155
QY 126 CAGCGGGAGAGCAATGCAACCCAGAGGCGCGGCGGCTCCGCGAGCGGCTCGGCGGCTC 185
Db 156 CAGCGGGAGAGCAATGCAACCCAGAGGCGCGGCGGCTCCGCGAGCGGCTCGGCGGCTC 215
QY 186 CTGCTGCTCTGCTGCTGACAGTGCAGCGCGGCTCGAGCGGCTCTGAGATCCCAAGGG 245

Db 216 CTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 275
QY 246 AAGCAAAAGGCGCAGCTCCGCGAGAGGAGGTGTGTGAGCACTGTATATGAAATGCTTA 305
Db 276 AAGCAAAAGGCGCAGCTCCGCGAGAGGAGGTGTGTGAGCACTGTATATGAAATGCTTA 335
QY 306 CAAGGCGCAGAGAGT 365
Db 336 CAAGGCGCAGAGAGT 395
QY 366 ACACCTGGAGATCCAGTCCGCGAGATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 425
Db 396 ACACCTGGAGATCCAGTCCGCGAGATTCAGAGAGAGAGAGAGAGAGAGAGAGAGAG 455
QY 426 AGCTTTGAGAGAGTCTGTGACACCACTACAGAGAGTGTGTGTGTGTGTGTGTGTGT 485
Db 456 AGCTTTGAGAGAGTCTGTGACACCACTACAGAGAGTGTGTGTGTGTGTGTGTGTGT 515
QY 486 GGCATAGATCTTTGGAGAAATTTGCGAGTGTACATTTACAAAGATGCTTCAATAGTCT 545
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RESULT 12
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DEFINITION AGENCOURT_7902947 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6157844
5', mRNA sequence.
ACCESSION B0425098
VERSION B0425098.1 GI:21120413
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE NIH-MGC http://mgc.ncl.nih.gov/
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgapbs-remail.nih.gov
Tissue Procurement: ATCC/DCTD/DRP
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
DNA Sequencing by: Agencourt Bioscience Corporation
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LNL at:
http://image.llnl.gov
Plate: L1AM13504 row: f column: 21
High quality sequence stop: 714.

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RESULT 14
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DEFINITION UI-H-E20-baw-n-12-0-UI.s1 NCI_CGAP Chl Homo sapiens cDNA clone
ACCESSION UI-H-E20-baw-n-12-0-UI 3', mRNA sequence.
VERSION CA15410
KEYWORDS CA15410.1 GI:24778061
SOURCE EST.
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 747)
AUTHORS NCI-CCAP http://www.ncbi.nlm.nih.gov/ncicgap.
TITLE National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
UNPUBLISHED
CONTACT: Robert Strausberg, Ph.D.
Tissue Procurement: Dr. Steven Gtelis/ Rush Presbiterian, Dept. of
Orthopedics
CDNA Library Preparation: Dr. M. Bento Soares, University of Iowa
CDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained
from Dr. M. Bento Soares, bento-soares@uiowa.edu
The following repetitive elements were found in this cDNA
sequence: 1-60, >AT-rich<low-complexity (matched complement)
Seq primer: M13 FORWARD

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FEATURES
    source POLYA=Yes.
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            /note="Organ: Left Pelvis; Vector: pRT3-Pac (Pharmacia)
            with a modified polylinker; Site 1: EcoR I; Site 2: Not I;
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            tissue(s): Chondrosarcoma Grade II. The library was
            constructed according to Bonaldo, Lennon and Soares,
            Genome Research, 6:791-806, 1996. First strand cDNA
            synthesis was primed with an oligo-dT primer containing a
            Not I site. Double stranded cDNA was ligated to an EcoR I
            adaptor, digested with Not I, and cloned directionally
            into pRT3-Pac vector. The oligonucleotide used to prime
            the synthesis of first-strand cDNA contains a library tag
            sequence that is located between the Not I site and the
            (dnp)18 tail. The sequence tag for this library is
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BASE COUNT 277 a 121 c 113 g 236 t
ORIGIN

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Matches 716; Conservative 0; Mismatches 6; Indels 2; Gaps 1;
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Qy      714 GGCATTTCTGTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 773
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 QY 1254 AACA 1257
 Db 24 AACA 21
 RESULT 15 796 bp mRNA linear EST 26-MAR-2002
 BQ008675/6
 LOCUS BQ008675/6
 DEFINITION UT-H-E10-ay1-c-24-0-01.s1 NCI_CGAP_E10 Homo sapiens CDNA clone
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 ACCESSION BQ008675
 VERSION BQ008675.1 GI:19733576
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 796)
 NCI-CGAP http://www.ncbi.nlm.nih.gov/cisgap
 National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
 Tumor Gene Index
 Unpublished
 JOURNAL Contact: Robert Strausberg, Ph.D.
 Email: cgaabs-remail.nih.gov
 Tissue Procurement: Dr. Jose Mercuende
 CDNA library preparation: Dr. M. Bento Soares, University of Iowa
 DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
 Clone Distribution: Clone distribution information can be found
 through the I.M.A.G.E. Consortium/LLNC at: http://image.llnl.gov
 The following repetitive elements were found in this CDNA
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 tissue(s): Chondrosarcoma. The library was constructed
 according to Bonaldo, Lennon and Soares, Genome Research,
 6:791-806, 1996. First strand cDNA synthesis was primed
 with an oligo-dT primer containing a Not I site. Double
 stranded cDNA was ligated to an EcoR I adaptor, digested
 with Not I, and cloned directionally into pT73-Pac
 vector. The oligonucleotide used to prime the synthesis of
 first-strand cDNA contains a library tag sequence that is
 located between the Not I site and the (dT)18 tail. The
 sequence tag for this library is ACACTTGAC.
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 TAG_TISSUE=chondrosarcoma
 TAG_SEO=ACACTTGAC"
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Query Match 55.3%; Score 695.6; DB 12; Length 796;
 Best Local Similarity 100.0%; Pred. No. 9, 6e-106;
 Matches 693; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 QY 685 CTGAAATGAATTCACAAATTAATTAATTCAGCACTTCTGTGGAAGACTTGTGAAG 744
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 QY 745 GAATGTGCTGATAGAGATGAGATGCTATCTGGGTGGCACTTGTGATACCA 804
 Db 530 GAATGTGCTGATAGAGATGAGATGCTATCTGGGTGGCACTTGTGATACCA 471
 QY 805 AAGGATGCTTCTAGTGAATGCAATTCATCTGCAATCATTTATGAAAGACTACCA 864
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 Db 230 AATCAAAAGTGTTCATTAATTTTAAATTTTAAATTTTAAATTTTAAATTTTAAAT 171
 QY 1105 TCTCTCAACCTTAATTTGGAATTAATTTGGAATTTGGAATTTGGAATTTGGAATTT 1164
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GenCore version 5.1.6
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1231.6	98.0	1342	4	US-09-489-847-89	Sequence 89, App1
2	1222.8	97.3	1286	4	US-09-489-847-124	Sequence 124, App1
3	1197.9	95.2	1288	4	US-09-205-258-125	Sequence 125, App1
4	681.8	54.2	683	4	US-09-222-575-63	Sequence 63, App1
5	681.8	54.2	683	4	US-09-389-681-63	Sequence 63, App1
6	681.8	54.2	683	4	US-09-620-4058-63	Sequence 63, App1
7	681.8	54.2	683	4	US-09-339-338-63	Sequence 63, App1
8	681.8	54.2	683	4	US-09-433-8268-63	Sequence 63, App1
9	681.8	54.2	683	4	US-09-604-8874-63	Sequence 63, App1
10	56.8	4.5	20674	4	US-09-641-638-651	Sequence 651, App1
11	55.2	4.4	2109	4	US-09-370-838-157	Sequence 153, App1
12	55	4.4	4818	3	US-08-817-926-27	Sequence 27, App1
13	54.2	4.3	19124	2	US-08-487-8268-13	Sequence 13, App1
14	52.8	4.2	7244	3	US-08-387-313-26	Sequence 26, App1
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16	50.4	4.0	7218	1	US-08-222-463-14	Sequence 14, App1
17	48.8	3.9	5332	4	US-09-801-861-3	Sequence 3, App1
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23	47.2	3.8	3095	6	5231168-1	Patent No. 5231168
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25	46	3.7	4060	1	US-08-308-9494-1	Sequence 1, App1
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29	45.6	3.6	6124	4	US-09-231-119B-3	Sequence 3, Appl.
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37	45.2	3.6	4580	4	US-09-451-522-8	Sequence 8, Appl.
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ALIGNMENTS

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1 RESULT 1
2 US-09-489-847-89
3 Sequence 89, Application US/09489847
4 Patent No. 6476195
5 GENERAL INFORMATION:
6 APPLICANT: Rosen et al
7 TITLE OF INVENTION: 98 Human Secreted Proteins
8 FILE REFERENCE: P2031p1
9 CURRENT APPLICATION NUMBER: US/09/489, 847
10 CURRENT FILING DATE: 2000-01-24
11 EARLIER APPLICATION NUMBER: Pct/US99/17130
12 EARLIER FILING DATE: 1999-07-29
13 EARLIER APPLICATION NUMBER: 60/094,657
14 EARLIER FILING DATE: 1998-07-30
15 EARLIER APPLICATION NUMBER: 60/095,486
16 EARLIER FILING DATE: 1998-08-05
17 EARLIER APPLICATION NUMBER: 60/096,319
18 EARLIER FILING DATE: 1998-08-12
19 EARLIER APPLICATION NUMBER: 60/095,454
20 EARLIER FILING DATE: 1998-08-06
21 EARLIER APPLICATION NUMBER: 60/095,455
22 EARLIER FILING DATE: 1998-08-06
23 SOFTWARE: PatentIn Ver. 2.0
24 SEQ ID NO 89
25 LENGTH: 1342
26 TYPE: DNA
27 ORGANISM: Homo sapiens
28 US-09-489-847-89

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Best Local Similarity	99.6%	Pred. No. 2.4e-273		
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1028 ATTAATGATTTGCTTCAATCAAAAGTGTGATTCATTTTATTTATTTATTTATTTAT 1087
1031 ATTAATGATTTGCTTCAATCAAAAGTGTGATTCATTTTATTTATTTATTTATTTAT 1090
1088 TTTCTCATAGTCAATTCCTCAACCTATTAATTTGAATTTGTTGTGTGCTTTTGT 1147
1091 TTTCTCATAGTCAATTCCTCAACCTATTAATTTGAATTTGTTGTGTGCTTTTGT 1150
1148 TTTCTCATAGTCAATTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1207
1151 TTTCTCATAGTCAATTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTA 1210
1208 AATGATTAAGAAATTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 1257
1211 AATGATTAAGAAATTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTAT 1260

RESULT 2
US-09-489-847-124
Sequence 124, Application US/09489847
Patent No. 6476195

GENERAL INFORMATION:
APPLICANT: Rosen et al
TITLE OF INVENTION: 98 Human Secreted Proteins
FILE REFERENCE: P2031P1
CURRENT APPLICATION NUMBER: US/09/489,847
CURRENT FILING DATE: 2000-01-24
EARLIER APPLICATION NUMBER: PCT/US99/17130
EARLIER FILING DATE: 1999-07-29
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
EARLIER APPLICATION NUMBER: 60/095,486
EARLIER FILING DATE: 1998-08-05
EARLIER APPLICATION NUMBER: 60/096,319
EARLIER FILING DATE: 1998-08-12
EARLIER APPLICATION NUMBER: 60/095,454
EARLIER FILING DATE: 1998-08-06
EARLIER APPLICATION NUMBER: 60/095,455
EARLIER FILING DATE: 1998-08-06
NUMBER OF SEQ ID NOS: 376
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 124
LENGTH: 1286
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: SITE
LOCATION: (1284)
OTHER INFORMATION: n equals a,t,g, or c
US-09-489-847-124

Query Match 97.3%, Score 1222.8; DB 4; Length 1286;
Best Local Similarity 99.7%; Pred. No. 2,4e-271;
Matches 1246; Conservative 0; Mismatches 2; Indels 2; Gaps 2;

8 GGGCGGGGGGGAAGGGGCAATGATGATGATGATGATGATGATGATGATGATGATGATG 67
2 GGGCGGGGGGGAAGGGGCAATGATGATGATGATGATGATGATGATGATGATGATGATG 60
68 AGAGCGAGCAGCAGTCT 127
61 AGAGCGAGCAGCAGTCT 120
128 GCGGAGAGCAGTGGAGACCCAGGCGCCGCTCCCGCAGAGGCTCGCGGCTCTCTCT 187
121 GCGGAGAGCAGTGGAGACCCAGGCGCCGCTCCCGCAGAGGCTCGCGGCTCTCTCT 180
188 GCTGCT 247
181 GCTGCT 240
248 GCAAAAGGCGAGCTCCGGCAGAGGAGGTGTGAGCTGTATTAATGGAATGTGCTTACA 307
241 GCAAAAGGCGAG-CTCCGGCAGAGGAGGTGTGAGCTGTATTAATGGAATGTGCTTACA 299
308 AGGCGCAGCAGAGAGTCCGTGTCGAGAGGAGCCCTGGGGCCAAATGTTATTCGGGTAC 367
300 AGGCGCAGCAGAGAGTCCGTGTCGAGAGGAGCCCTGGGGCCAAATGTTATTCGGGTAC 359
368 ACCTGGAGTCCAGAGTCCGGATGATGATTCAAAGGAGAAAAGGGGAATGCTGAGGGAAG 427
360 ACCTGGAGTCCAGAGTCCGGATGATGATTCAAAGGAGAAAAGGGGAATGCTGAGGGAAG 419
428 CTTTGAGAGAGTCCGGACACCACTACAGACAGTGTTCATGAGTTCATGATTAATG 487
420 CTTTGAGAGAGTCCGGACACCACTACAGACAGTGTTCATGAGTTCATGATTAATG 479
488 CATGAGATCTGGAGAAATTCGGAGTGTACATTTTACAAAGATGGCTCAAAATGAGTCT 547
480 CATGAGATCTGGAGAAATTCGGAGTGTACATTTTACAAAGATGGCTCAAAATGAGTCT 539
548 AAGAGTTTGTTCAGTGGCTCCTCCGCTAAATGAGCAATGCAATGCAATGCAATGCAATG 607
540 AAGAGTTTGTTCAGTGGCTCCTCCGCTAAATGAGCAATGCAATGCAATGCAATGCAATG 599

EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,884
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,894
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,971
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,964
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,882
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,899
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,901
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,892
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,915
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/049,019
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,970
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,972
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,916
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/049,373
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,875
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/049,374
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,917
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,949
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,974
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,883
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,897
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,898
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,962
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,963
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,877
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/048,878
EARLIER FILING DATE:	1997-06-06
EARLIER APPLICATION NUMBER:	60/070,923
EARLIER FILING DATE:	1997-12-18
EARLIER APPLICATION NUMBER:	60/092,921
EARLIER FILING DATE:	1998-07-15
EARLIER APPLICATION NUMBER:	60/094,657
EARLIER FILING DATE:	1998-07-30
NUMBER OF SEQ ID NOS:	1227
SOFTWARE:	PatentIn Ver. 2.0
SEQ ID NO	125
LENGTH:	1288
TYPE:	DNA
ORGANISM:	Homo sapiens
FEATURE:	
NAME/KEY:	SITE
LOCATION:	(1286)
OTHER INFORMATION:	n equals a,t,g, or c


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DB 263 TTTAAATTAAGTTATATATACATCTCAATGAAGAAAGCAAGCTAAATATGTTTACAGACCA 204
QY 996 AAGTGTATTTACACACTGTTTAAATAGCATTTATTCATTTTGGTTCATCAAAAGTG 1055
DB 203 AAGTGTATTTACACACTGTTTAAATAGCATTTATTCATTTTGGTTCATCAAAAGTG 144
QY 1056 GTTTCATATTTTATTTTATGTTAGTGTAGAAATCTTCTCATCTCAATCTCTCAACCT 1115
DB 143 GTTTCATATATTTTATTTTATGTTAGTGTAGAAATCTTCTCATCTCAATCTCTCAACCT 84
QY 1116 ATAAATTTGAATATGTTGTGCTCTTTGTTTCTCTAGATAGCATTTTAAATAA 1175
DB 83 ATAAATTTGAATATGTTGTGCTCTTTGTTTCTCTAGATAGCATTTTAAATAA 24
QY 1176 ATATAAAGCTACCAATCTTTGT 1198
DB 23 ATATAAAGCTACCAATCTTTGT 1
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RESULT 5

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US-09-389-681-63/C
; Sequence 63, Application US/09389681A
; Patent No. 6518237
; GENERAL INFORMATION:
; APPLICANT: Yuqi, Jiang
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.47003
; CURRENT APPLICATION NUMBER: US/09/389,681A
; NUMBER OF SEQ ID NOS: 463
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 63
; LENGTH: 683
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-389-681-63
```

Query Match 54.2%; Score 681.8; DB 4; Length 683;
Best Local Similarity 99.6%; Pred. No. 2.5e-147;
Matches 680; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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QY 516 ACATTTACAAAGATGCGTCAAAATAGTCTAGAGTTTGTTCAGTGGCTACCTCGG 575
DB 683 ACATTTACAAAGATGCGTCAAAATAGTCTAGAGTTTGTTCAGTGGCTACCTCGG 624
QY 576 CTAAATGCAAGAAATGATGCTGTGTCAGCGTTGGTATTTACATTCATGAGCTGAATG 635
DB 623 CTAAATGCAAGAAATGATGCTGTGTCAGCGTTGGTATTTACATTCATGAGCTGAATG 564
QY 636 TCAGGACCTCTCCCTTCAAGCTATTAATTTATTTGAGCAAGAAAGCCCTGAATGAAT 695
DB 563 TCAGGACCTCTCCCTTCAAGCTATTAATTTATTTGAGCAAGAAAGCCCTGAATGAAT 504
QY 696 TCAACAATTAATATTTATGAGCACTTCTCTGTTGGAAGCACTTTGTAAGAAATTTGCTG 755
DB 503 TCAACAATTAATATTTATGAGCACTTCTCTGTTGGAAGCACTTTGTAAGAAATTTGCTG 444
QY 756 GGATTTAGTGGATGTTCTATCTGTGGGTTGGCACTTTGTTCAGATTAACCAAAAGAGATGCT 815
DB 443 GGATTTAGTGGATGTTCTATCTGTGGGTTGGCACTTTGTTCAGATTAACCAAAAGAGATGCT 384
QY 816 TCTACGATGATGATTTCAATTTCTGCATCATTTATGAAGAACTACCAAAATTAATGCTT 875
DB 383 TCTACGATGATGATTTCAATTTCTGCATCATTTATGAAGAACTACCAAAATTAATGCTT 324
QY 876 TAAATTTCAATTTCTACCTCTTTTATTTATGCTTGAATGCTTCAATTAATGAT 935
DB 323 TAAATTTCAATTTCTACCTCTTTTATTTATGCTTGAATGCTTCAATTAATGAT 264
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QY 936 TTTAAATTAAGTTATATATACATCTGAATGAAGAAAGCAAGCTAAATATGTTTACAGACCA 995
DB 263 TTTAAATTAAGTTATATATACATCTGAATGAAGAAAGCAAGCTAAATATGTTTACAGACCA 204
QY 996 AAGTGTATTTACACACTGTTTAAATAGCATTTATTCATTTTGGTTCATCAAAAGTG 1055
DB 203 AAGTGTATTTACACACTGTTTAAATAGCATTTATTCATTTTGGTTCATCAAAAGTG 144
QY 1056 GTTTCATATTTTATTTTATGTTAGTGTAGAAATCTTCTCATCTCAATCTCTCAACCT 1115
DB 143 GTTTCATATATTTTATTTTATGTTAGTGTAGAAATCTTCTCATCTCAATCTCTCAACCT 84
QY 1116 ATAAATTTGAATATGTTGTGCTCTTTGTTTCTCTAGATAGCATTTTAAATAA 1175
DB 83 ATAAATTTGAATATGTTGTGCTCTTTGTTTCTCTAGATAGCATTTTAAATAA 24
QY 1176 ATATAAAGCTACCAATCTTTGT 1198
DB 23 ATATAAAGCTACCAATCTTTGT 1
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RESULT 6

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US-09-620-405B-63/C
; Sequence 63, Application US/09620405B
; Patent No. 6528054
; GENERAL INFORMATION:
; APPLICANT: Jiang, Yuqi
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, Jiangchun
; APPLICANT: Harlocker, Susan L.
; APPLICANT: Hepler, William T.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
; FILE REFERENCE: 210121.47008
; CURRENT APPLICATION NUMBER: US/09/620,405B
; NUMBER OF SEQ ID NOS: 495
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 63
; LENGTH: 683
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-620-405B-63
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Query Match 54.2%; Score 681.8; DB 4; Length 683;
Best Local Similarity 99.6%; Pred. No. 2.5e-147;
Matches 680; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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QY 516 ACATTTACAAAGATGCGTCAAAATAGTCTAGAGTTTGTTCAGTGGCTACCTCGG 575
DB 683 ACATTTACAAAGATGCGTCAAAATAGTCTAGAGTTTGTTCAGTGGCTACCTCGG 624
QY 576 CTAAATGCAAGAAATGATGCTGTGTCAGCGTTGGTATTTACATTCATGAGCTGAATG 635
DB 623 CTAAATGCAAGAAATGATGCTGTGTCAGCGTTGGTATTTACATTCATGAGCTGAATG 564
QY 636 TCAGGACCTCTCCCTTCAAGCTATTAATTTATTTGAGCAAGAAAGCCCTGAATGAAT 695
DB 563 TCAGGACCTCTCCCTTCAAGCTATTAATTTATTTGAGCAAGAAAGCCCTGAATGAAT 504
QY 696 TCAACAATTAATATTTATGAGCACTTCTCTGTTGGAAGCACTTTGTAAGAAATTTGCTG 755
DB 503 TCAACAATTAATATTTATGAGCACTTCTCTGTTGGAAGCACTTTGTAAGAAATTTGCTG 444
QY 756 GGATTTAGTGGATGTTCTATCTGTGGGTTGGCACTTTGTTCAGATTAACCAAAAGAGATGCT 815
DB 443 GGATTTAGTGGATGTTCTATCTGTGGGTTGGCACTTTGTTCAGATTAACCAAAAGAGATGCT 384
QY 816 TCTACGATGATGATTTCAATTTCTGCATCATTTATGAAGAACTACCAAAATTAATGCTT 875
DB 383 TCTACGATGATGATTTCAATTTCTGCATCATTTATGAAGAACTACCAAAATTAATGCTT 324
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OY 876 TAATTTGATTTGCTACCTCTTTTATATATGCTTGGAATGTTCACTTAATGACAT 935
    |||||
DB 323 TAATTTGATTTGCTACCTCTTTTATATGCTTGGAATGTTCACTTAATGACAT 264
    |||||
OY 936 TTTAAATAGTTTATGATATACATGATGAAAGCAAGCAATATATGTTACGACCA 995
    |||||
DB 263 TTTAAATAGTTTATGATATACATGATGAAAGCAAGCAATATATGTTACGACCA 204
    |||||
OY 996 AAGTGTATTTACACCTGTTTTTAAATCTAGCATTTTCAATTTGCTTCAATCAAAAGTG 1055
    |||||
DB 203 AAGTGTATTTACACCTGTTTTTAAATCTAGCATTTTCAATTTGCTTCAATCAAAAGTG 144
    |||||
OY 1056 GTTCAATATTTTATGTTGTTAGTAATCTTTCTCATAGTCACATTTCTCAACCT 1115
    |||||
DB 143 GTTCAATATTTTATGTTGTTAGTAATCTTTCTCATAGTCACATTTCTCAACCT 84
    |||||
OY 1116 ATAAATTTGGAATATGTTGTTGTTGTTTCTTTCTGATAGATTTTAAAAA 1175
    |||||
DB 83 ATAAATTTGGAATATGTTGTTGTTGTTTCTTTCTGATAGATTTTAAAAA 24
    |||||
OY 1176 ATATAAAAGCTACCAATCTTTGT 1198
    |||||
DB 23 ATATAAAAGCTACCAATCTTTGT 1
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RESULT 7

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US-09-339-338-63/C
; Sequence 63, Application US/09339338A
; Patent No. 6573368
; GENERAL INFORMATION:
; APPLICANT: Yuqiu, JIANG
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, JIANGCHUN
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C2
; CURRENT APPLICATION NUMBER: US/09/339, 338A
; NUMBER OF SEQ ID NOS: 315
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 63
; LENGTH: 683
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-339-338-63
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Query Match          54.2%; Score 681.8; DB 4; Length 683;
Best Local Similarity 99.6%; Pred. No. 2.5e-147;
Matches 680; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
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OY 516 ACATTTACAAAGATGCTTCAAAATAGTCTCTAAGAGTTTGTTCAGTGCTCACTTGG 575
    |||||
DB 683 ACATTTACAAAGATGCTTCAAAATAGTCTCTAAGAGTTTGTTCAGTGCTCACTTGG 624
    |||||
OY 576 CTAAATAGCAAAATGATGCTGTCAGCGTTGTAATTTTCAATTCATGAGCTGAATGT 635
    |||||
DB 623 CTAAATAGCAAAATGATGCTGTCAGCGTTGTAATTTTCAATTCATGAGCTGAATGT 564
    |||||
OY 636 TCAGGACCTCTTCCCATTTGAAGCTATATATTTTGGACCAAGAGCCCTGAATGAT 695
    |||||
DB 563 TCAGGACCTCTTCCCATTTGAAGCTATATATTTTGGACCAAGAGCCCTGAATGAT 504
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OY 696 TCAACAATTAATATTCATGCACTTCTCTGTGGAAGACTTTTGAAGAAATGGTGT 755
    |||||
DB 503 TCAACAATTAATATTCATGCACTTCTCTGTGGAAGACTTTTGAAGAAATGGTGT 444
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OY 756 GGATTAAGTGAATGTTGCTATCTGGTTGGCACTTTGTCAGATTAACCAAAAGAGATGCT 815
    |||||
DB 443 GGATTAAGTGAATGTTGCTATCTGGTTGGCACTTTGTCAGATTAACCAAAAGAGATGCT 384
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OY 816 TCTACTGATGATGATTCAGTTTCTGCAATCATTTATGAAGACTACCAAAATTAATGCTT 875
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DB 383 TCTACTGATGATGATTCAGTTTCTGCAATCATTTATGAAGACTACCAAAATTAATGCTT 324
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OY 876 TAATTTGATTTGCTACCTCTTTTATATGCTTGGAATGTTCACTTAATGACAT 935
    |||||
DB 323 TAATTTGATTTGCTACCTCTTTTATATGCTTGGAATGTTCACTTAATGACAT 264
    |||||
OY 936 TTTAAATAGTTTATGATATACATGATGAAAGCAAGCAATATATGTTACGACCA 995
    |||||
DB 263 TTTAAATAGTTTATGATATACATGATGAAAGCAAGCAATATATGTTACGACCA 204
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OY 996 AAGTGTATTTACACCTGTTTTTAAATCTAGCATTTTCAATTTGCTTCAATCAAAAGTG 1055
    |||||
DB 203 AAGTGTATTTACACCTGTTTTTAAATCTAGCATTTTCAATTTGCTTCAATCAAAAGTG 144
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OY 1056 GTTCAATATTTTATGTTGTTAGTAATCTTTCTCATAGTCACATTTCTCAACCT 1115
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DB 143 GTTCAATATTTTATGTTGTTAGTAATCTTTCTCATAGTCACATTTCTCAACCT 84
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OY 1116 ATAAATTTGGAATATGTTGTTGTTGTTTCTTTCTGATAGATTTTAAAAA 1175
    |||||
DB 83 ATAAATTTGGAATATGTTGTTGTTGTTTCTTTCTGATAGATTTTAAAAA 24
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OY 1176 ATATAAAAGCTACCAATCTTTGT 1198
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DB 23 ATATAAAAGCTACCAATCTTTGT 1
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RESULT 8

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US-09-433-826B-63/C
; Sequence 63, Application US/09433826B
; Patent No. 6579973
; GENERAL INFORMATION:
; APPLICANT: JIANG, Yuqiu
; APPLICANT: Dillon, Davin C.
; APPLICANT: Mitcham, Jennifer L.
; APPLICANT: Xu, JIANGCHUN
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
; FILE REFERENCE: 210121.470C4
; CURRENT APPLICATION NUMBER: US/09/433, 826B
; NUMBER OF SEQ ID NOS: 474
; SOFTWARE: FASTSEQ for Windows Version 3.0
; SEQ ID NO 63
; LENGTH: 683
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-433-826B-63
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Query Match          54.2%; Score 681.8; DB 4; Length 683;
Best Local Similarity 99.6%; Pred. No. 2.5e-147;
Matches 680; Conservative 3; Mismatches 0; Indels 0; Gaps 0;
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OY 516 ACATTTACAAAGATGCTTCAAAATAGTCTCTAAGAGTTTGTTCAGTGCTCACTTGG 575
    |||||
DB 683 ACATTTACAAAGATGCTTCAAAATAGTCTCTAAGAGTTTGTTCAGTGCTCACTTGG 624
    |||||
OY 576 CTAAATAGCAAAATGATGCTGTCAGCGTTGTAATTTTCAATTCATGAGCTGAATGT 635
    |||||
DB 623 CTAAATAGCAAAATGATGCTGTCAGCGTTGTAATTTTCAATTCATGAGCTGAATGT 564
    |||||
OY 636 TCAGGACCTCTTCCCATTTGAAGCTATATATTTTGGACCAAGAGCCCTGAATGAT 695
    |||||
DB 563 TCAGGACCTCTTCCCATTTGAAGCTATATATTTTGGACCAAGAGCCCTGAATGAT 504
    |||||
OY 696 TCAACAATTAATATTCATGCACTTCTCTGTGGAAGACTTTTGAAGAAATGGTGT 755
    |||||
DB 503 TCAACAATTAATATTCATGCACTTCTCTGTGGAAGACTTTTGAAGAAATGGTGT 444
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OY 756 GGATTAAGTGAATGTTGCTATCTGGTTGGCACTTTGTCAGATTAACCAAAAGAGATGCT 815
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Db	443	GGATTAGGAGTGTGCATCTGGTGGTGGVACTGTTCAGATTAACCCAAAAGAGATGCT	384
Qy	816	TCCTCTGCGATGGGAATTACGTTTCGCGATCATTTATGAAGACATCAACAAAATAATGCTT	875
Db	383	TCCTACTGGATGGGAATTCAGTTCTTCGATCTATTATGAAAGACACCAAAAATAATGCTT	324
Qy	876	TAATTTTCATTGGTACCTCTTTTATATATGCTGGATGGGTCACTTAATGCAAT	935
Db	323	TAATTTTCATTGGTACCCCTTTTATATATGCTGGATGGGTCACTTAATGCAAT	264
Qy	936	TTTAAATACGTTTATGATACATCGTGAATGAAAAGCAAAAGCTAAATATGTTTACAGACA	995
Db	263	TTTAAATACGTTTATGATACATCGTGAATGAAAAGCAAAAGCTAAATATGTTTACAGACA	204
Qy	996	AAGTGTGATTTCCACACGTCTTTTAAATCTACACATTAATTCATTTGGTCTTCAATCAAAAGTG	1055
Db	203	AAGTGTGATTTCCACACGTCTTTTAAATCTACACATTAATTCATTTGGTCTTCAATCAAAAGTG	144
Qy	1056	GTTTCAATATTTTTTTAGTGGTATAGAAATCTTCTTCATAGTCACATTCCTCAACCT	1115
Db	143	GTTTCAATATTTTTTTAGTGGTATAGAAATCTTCTTCATAGTCACATTCCTCAACCT	84
Qy	1116	ATAATTTTGGAAATATGTGTGGTCTTTTGTGTTTTCCTAGTATAGACATTTTAAAAAA	1175
Db	83	ATAATTTTGGAAATATGTGTGGTCTTTTGTGTTTTCCTAGTATAGACATTTTAAAAAA	24
Qy	1176	ATATPAAAAGCTACCAATCTTGTCT	1198
Db	23	ATATPAAAAGCTACCAATCTTGTCT	1

RESULT 9
US-09-604-287A-63/C

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: Sequence 63, Application US/09604287A
: Patent No. 6586572
:
: GENERAL INFORMATION:
:
: APPLICANT: Jiang, Yugu
:
: APPLICANT: Dillon, David C.
:
: APPLICANT: Mitcham, Jennifer L.
:
: APPLICANT: Xu, Jiangchun
:
: APPLICANT: Harlocker, Susan L.
:
: APPLICANT: Hepler, William T.
:
: TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND
:
: TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER
:
: FILE REFERENCE: 210121.47C07
:
: CURRENT APPLICATION NUMBER: US/09/604,287A
:
: CURRENT FILING DATE: 2000-06-22
:
: NUMBER OF SEQ ID NOS: 489
:
: SOFTWARE: FastSeq for Windows Version 3.0
:
: SEQ ID NO 63
:
: LENGTH: 683
:
: TYPE: DNA
:
: ORGANISM: Homo sapien
:
: US-09-604-287A-63

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Query Match	54.28;	Score 681.8;	DB 4;	Length 683;
Best Local Similarity	99.68;	Pred. No. 2.5e-147;		
Matches 680; Conservative	3;	Mismatches 0;	Indels 0;	Gaps 0;

QY	516	ACATTACAAAGATCGCTTCAAAATAGTCTCTAAGAGTTTGTTCAGTGGCCACTTGG	575
Db	683	ACATTACAAAGATCGCTTCAAAATAGTCTCTAAGAGTTTGTTCAGTGGCCACTTGG	624
QY	576	CTAAATGACGAATGCAATGCTGTGACGCTTGCTATTTTCACATTCAATGAGCTGAATG	635
Db	623	CTAAATGACGAATGCAATGCTGTGACGCTTGCTATTTTCACATTCAATGAGCTGAATG	564
QY	636	TCAGGACCTCTCCCATGGAAGCTATTAATTTATTTTGGACCAAGAGCCCTGAATGAT	695
Db	563	TCAGGACCTCTCCCATGGAAGCTATTAATTTATTTTGGACCAAGAGCCCTGAATGAT	504
QY	636	TCACCAATTAATATTCATGCACTTCTCTGTGGAGGACTTTGGAAGAAATTTGATGT	755

Db	503	TCAACATTTAAATTCACGCACTCTTCTGTGGAGAGACATTTGTGAAGCAATTTGATCT	444
Qy	756	GGATTATGCAATGTCCTATCTGGGTGGCACTGTTCAATTTACCAAAAAGGATGCT	815
Db	443	GGATTATGCAATGTCCTATCTGGGTGGCACTGTTCAATTTACCAAAAAGGATGCT	384
Qy	816	TCTACTGATGGAATTCAGTTTCGCGATCATTTATGAAGACATCCAAAATAAATGCTT	875
Db	383	TCTACTGATGGAATTCAGTTTCGCGATCATTTATGAAGACATCCAAAATAAATGCTT	324
Qy	876	TAAATTTCAATTTGCTACCTCTTTTATTAATGCGTTGGAATGGTTCACCTAAATGACAT	935
Db	323	TAAATTTCAATTTGCTACCTCTTTTATTAATGCGTTGGAATGGTTCACCTAAATGACAT	264
Qy	936	TTTTAAATAGTTTTGTATACATCTGGAATGAAAGCAAAAGCTAAATATGTTTACAGACA	995
Db	263	TTTTAAATAGTTTTGTATACATCTGGAATGAAAGCAAAAGCTAAATATGTTTACAGACA	204
Qy	996	AAGTGTATTTACACTGTTTTTAAATCTAGACATTAATTCATTTGCTTCAATCAAAAGTG	1055
Db	203	AAGTGTATTTACACTGTTTTTAAATCTAGACATTAATTCATTTGCTTCAATCAAAAGTG	144
Qy	1056	GTTTCACATTTTTTTTAGTGGGTAGAACTTCTTCATAGTACACTTCCTCCAACT	1115
Db	143	GTTTCACATTTTTTTTAGTGGGTAGAACTTCTTCATAGTACACTTCCTCCAACT	84
Qy	1116	ATAATTTGGAATATGTTGNGCTTTTGTTTTTTCTTTAGTATAGCAATTTTAAAAAA	1175
Db	83	ATAATTTGGAATATGTTGNGCTTTTGTTTTTTCTTTAGTATAGCAATTTTAAAAAA	24
Qy	1176	ATAATTAAGTACCAATCTTGT 1198	
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Db 23 ATATAAAGCTACCAATCTTGT 1

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RESULT 10
US-09-641-638-651
Sequence 651, Application US/09641638
Patent No. 6432648
GENERAL INFORMATION:
APPLICANT: Blumenfeld, Marta
APPLICANT: Bougenferet, Lydie
APPLICANT: Chumakov, Ilya
APPLICANT: Cohen, Annick
TITLE OF INVENTION: BIALLELIC MARKERS DERIVED FROM GENOMIC REGIONS CARRYING
TITLE OF INVENTION: GENES INVOLVED IN ARACHIDONIC ACID METABOLISM
FILE REFERENCE: GENSET, 051CPI
CURRENT APPLICATION NUMBER: US/09/641,638
CURRENT FILING DATE: 2000-08-16
PRIORITY APPLICATION NUMBER: US 09/502,330
PRIORITY FILING DATE: 2000-02-11
PRIORITY APPLICATION NUMBER: US 60/133,200
PRIORITY FILING DATE: 1999-05-07
PRIORITY APPLICATION NUMBER: US 09/275,267
PRIORITY FILING DATE: 1999-03-23
PRIORITY APPLICATION NUMBER: US 60/119,917
PRIORITY FILING DATE: 1999-02-12
NUMBER OF SEQ ID NOS: 1304
SOFTWARE: Patent.pm
SEQ ID NO 651
LENGTH: 20674
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc-feature
LOCATION: 1123..3123
OTHER INFORMATION: 5' regulatory region
NAME/KEY: exon
LOCATION: 3124..3297
OTHER INFORMATION: exon 1
NAME/KEY: exon
LOCATION: 3871..4072
OTHER INFORMATION: exon 2

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NAME/KEY: exon
LOCATION: 5552..5633
OTHER INFORMATION: exon 3
NAME/KEY: exon
LOCATION: 5758..5880
OTHER INFORMATION: exon 4
NAME/KEY: exon
LOCATION: 5996..6099
OTHER INFORMATION: exon 5
NAME/KEY: exon
LOCATION: 6349..6509
OTHER INFORMATION: exon 6
NAME/KEY: exon
LOCATION: 7379..7522
OTHER INFORMATION: exon 7
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OTHER INFORMATION: exon 8
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LOCATION: 12254..12340
OTHER INFORMATION: exon 9
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OTHER INFORMATION: exon 10
NAME/KEY: exon
LOCATION: 13308..13429
OTHER INFORMATION: exon 11
NAME/KEY: exon
LOCATION: 16567..16667
OTHER INFORMATION: exon 12
NAME/KEY: exon
LOCATION: 16775..16945
OTHER INFORMATION: exon 13
NAME/KEY: exon
LOCATION: 17063..17554
OTHER INFORMATION: exon 14
NAME/KEY: misc_feature
LOCATION: 17555..20674
OTHER INFORMATION: 3' regulatory region
NAME/KEY: allele
LOCATION: 1128
OTHER INFORMATION: 10-508-191 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 1182
OTHER INFORMATION: 10-508-245 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 1559
OTHER INFORMATION: 10-509-284 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 1570
OTHER INFORMATION: 10-509-295 : deletion of C
NAME/KEY: allele
LOCATION: 1827
OTHER INFORMATION: 10-510-173 : variable motif ATTGTA or TTTTGT
NAME/KEY: allele
LOCATION: 2048
OTHER INFORMATION: 10-511-62 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 2323
OTHER INFORMATION: 10-511-337 : insertion of T
NAME/KEY: allele
LOCATION: 2341
OTHER INFORMATION: 10-512-36 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 2623
OTHER INFORMATION: 10-512-318 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 2832
OTHER INFORMATION: 10-513-250 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 2844
OTHER INFORMATION: 10-513-262 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 2934
OTHER INFORMATION: 10-513-352 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 2947
OTHER INFORMATION: 10-513-365 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 3802
OTHER INFORMATION: 12-206-81 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 4062
OTHER INFORMATION: 10-343-231 : deletion of C
NAME/KEY: allele
LOCATION: 4088
OTHER INFORMATION: 12-206-366 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 4109
OTHER INFORMATION: 10-343-278 : polymorphic base C or T
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OTHER INFORMATION: 10-343-339 : polymorphic base G or T
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LOCATION: 6467
OTHER INFORMATION: 10-347-203 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 6484
OTHER INFORMATION: 10-347-220 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 6534
OTHER INFORMATION: 10-347-271 : polymorphic base A or T
NAME/KEY: allele
LOCATION: 6611
OTHER INFORMATION: 10-347-348 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 7668
OTHER INFORMATION: 10-348-391 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 8608
OTHER INFORMATION: 10-349-47 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 8658
OTHER INFORMATION: 10-349-97 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 8703
OTHER INFORMATION: 10-349-142 : polymorphic base G or C
NAME/KEY: allele
LOCATION: 8777
OTHER INFORMATION: 10-349-216 : deletion of CTG
NAME/KEY: allele
LOCATION: 8785
OTHER INFORMATION: 10-349-224 : polymorphic base G or T
NAME/KEY: allele
LOCATION: 8926
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OTHER INFORMATION: 10-349-368 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 12171
OTHER INFORMATION: 10-350-72 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 12429
OTHER INFORMATION: 10-350-332 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 13341
OTHER INFORMATION: 10-507-170 : polymorphic base A or G
NAME/KEY: allele
LOCATION: 13492
OTHER INFORMATION: 10-507-321 : polymorphic base A or C
NAME/KEY: allele
LOCATION: 13524
OTHER INFORMATION: 10-507-353 : polymorphic base C or T
NAME/KEY: allele
LOCATION: 13535

Query Match 4.5%; Score 56.8; DB 4; Length 20674;
Best Local Similarity 46.3%; Pred. No. 0.0026;
Matches 187; Conservative 0; Mismatches 217; Indels 0; Gaps 0;

QY 845 CATATGAGACACCAAAATTAATGCTTAATTTGCTACCTCTTTTAT 904
DB 11062 CTTTTTATAGCTAGGAAATATTTAATTTAATTTAATTTAATTTAA 11121
QY 905 TATGCTTGAGATGCTTAATTAATGATTTAATTAATTAATTAATTAAT 964
DB 11122 TATTAATTAATTAATTTAATTTAATTTAATTTAATTTAATTTAAT 11181
QY 965 GAAAGCAAGCTAATATATGTTACAGACCAAGTGTGATTCACATGTTTAAATCT 1024
DB 11182 AAAATTAATTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTT 11241
QY 1025 AACATTAATTTGCTTCAATCAAAAGTGTGATTTAATTTTGTGTTAGAA 1084
DB 11242 TTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTT 11301
QY 1085 TACTTCTCATAGTCATGTCACATGTCACATGTCATGTCATGTCATGTC 1144
DB 11302 TAAATTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAAT 11361
QY 1145 TTTTTCCTAGATAGATTTTAAAAAATTAATTAATTAATTTGATACAT 1204
DB 11362 TATTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTT 11421
QY 1205 TGTAAATGTTAAGATTTTATATCTGTTAATTAATTAATTAATTAAT 1248
DB 11422 AATTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTTAATTA 11465

RESULT 11
US-09-370-838-153/C
Sequence 153, Application US/09370838
Patent No. 6444425
GENERAL INFORMATION:
APPLICANT: Reed, Steven G.
APPLICANT: Lodes, Michael J.
APPLICANT: Mohamath, Roadoh
TITLE OF INVENTION: COMPOUNDS FOR THERAPY AND DIAGNOSIS OF
FILE REFERENCE: 210121.475C1
CURRENT APPLICATION NUMBER: US/09/370,838
EARLIER FILING DATE: 1999-08-09
NUMBER OF SEQ ID NOS: 289
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 153
LENGTH: 2109
TYPE: DNA

ORGANISM: Homo sapien
US-09-370-838-153

Query Match 4.4%; Score 55.2; DB 4; Length 2109;
Best Local Similarity 51.2%; Pred. No. 0.0023;
Matches 129; Conservative 0; Mismatches 123; Indels 0; Gaps 0;

QY 6 GAGGCGCGGGGTGAAGCGCATATGATGACGCTCGCGCGGCGGCGGCGGAG 65
DB 1140 GAGGCGCGCGGGGTGCTGCGGCGCTCCCGGGGCGGCGGCGGCGGCGGCG 1081
QY 66 CCAGACGCTGACCGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 125
DB 1080 CGCGCGCGCGCT 1021
QY 126 GAGCGGCGGAGCATGAGCGCCGCGGCGGCGGCGGCGGCGGCGGCGGCGG 185
DB 1020 CGGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 961
QY 186 CTGCTGCT 245
DB 960 CCAGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 901
QY 246 AAGCAAAAGCG 257
DB 900 CAGCGAGAGCGG 889

RESULT 12
US-08-817-926-27
Sequence 27, Application US/08817926
Patent No. 6001590
GENERAL INFORMATION:
APPLICANT: Kameda, Toshihiro
APPLICANT: Suda, Hisako
APPLICANT: Tamai, Yukio
APPLICANT: Iwamatsu, Akihito
APPLICANT: Kato, No. 6001590uo
APPLICANT: Sakai, Yasuyoshi
TITLE OF INVENTION: PROMOTER/TERMINATOR FOR CANDIDA BOIDINII
NUMBER OF SEQUENCES: 51
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
City: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/817,926
FILING DATE: 09-MAY-1997
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/JP96/02597
FILING DATE: 12-SEP-1996
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 234133/1995
FILING DATE: 12-SEP-1995
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: JP 42536/1996
FILING DATE: 29-FEB-1996
ATTORNEY/AGENT INFORMATION:
NAME: Bent, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 081356/0112
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300

ADDRESSEE: MORRISON & FOERSTER
STREET: 755 Page Mill Road
CITY: Palo Alto
STATE: California
COUNTRY: USA
ZIP: 94304-1018
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/378,313
FILING DATE:
CLASSIFICATION: 800
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 07/862,493
FILING DATE: 02-APR-1992
ATTORNEY/AGENT INFORMATION:
NAME: MORASHIGE, KATE H.
REGISTRATION NUMBER: 29,959
REFERENCE/DOCKET NUMBER: 29190-20002.20
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 856-5600
TELEFAX: (415) 494-0792
TELEX: 706141
INFORMATION FOR SEQ. ID NO: 26:
SEQUENCE CHARACTERISTICS:
LENGTH: 7244 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
FEATURE:
NAME/KEY: CDS
LOCATION: join(3056..3226, 3325..3453, 3539..3700, 4582
LOCATION: ..5574)
US-08-378-313-26
Query Match 4.2%; Score 52.8; DB 3; Length 7244;
Best Local Similarity 58.1%; Pred. No. 0.014;
Matches 93; Conservative 0; Mismatches 67; Indels 0; Gaps 0;
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DB 6813 TTTAACTAGATAAATCCAAAAGATAATATTTGATGATTTTAAATGATCTTT 6872
QY 1152 TCTTAGTATAGCATTTTAAAAAAATATAAAGCTACCAATCTTTACATTTGTAAT 1211
DB 6873 TTAATCATATGACATGTAGAAAAATATATATATTTTATATAGTTTAAAT 6932
QY 1212 GTTAAGAATTTTTTATATCTGTAAATAAAAATATTTT 1251
DB 6933 ATTAAATTTTATTTTAAATATTAATGAATATTTT 6972
RESULT 15
US-09-056-075-1/C
Sequence 1, Application US/09056075
Patent No. 5955368
GENERAL INFORMATION:
APPLICANT: Johnson, Eric A.
APPLICANT: Bradshaw, Marile
TITLE OF INVENTION: Expression System for Clostridium
TITLE OF INVENTION: Species
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Quarles & Brady
STREET: 1 South Plinckney Street
CITY: Madison
STATE: WI
COUNTRY: US
ZIP: 53701-2113

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/056,075
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Seay, Nicholas J.
REGISTRATION NUMBER: 27386
REFERENCE/DOCKET NUMBER: 960296.95238
TELECOMMUNICATION INFORMATION:
TELEPHONE: 608-251-5000
TELEFAX: 608-251-9166
INFORMATION FOR SEQ. ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 6243 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: misc_feature
LOCATION: 3770..4013
OTHER INFORMATION: /note= "RP4 origin of DNA transfer (oriT) from
US-09-056-075-1
Query Match 4.1%; Score 52; DB 2; Length 6243;
Best Local Similarity 45.7%; Pred. No. 0.02;
Matches 181; Conservative 0; Mismatches 215; Indels 0; Gaps 0;
QY 850 TTGAAGACTACCAAAATAAATGCTTTAATTTTCATTTGCTACCTCTTTTATATATGC 909
DB 1488 TTTATTAAGCTATTTTATTTATCTTTCTTCAAGATATATATATATATATATAT 1429
QY 910 CTGGAATGGTTCACCTTAATGACATTTTAAATAGTTATGATACATCTGAATGAA 969
DB 1428 TTTTCAACTTTAAATATATATATTTTATATTTTATTTTATTTTATATTTT 1369
QY 970 GCAAGCTAATATGTTTACGACCAAGTGATTTACACGTTTTAAATCTAGCAT 1029
DB 1368 TTTATTTTATTTTATTTTATATTTTATTTTATTTTATTTTATTTTATTTT 1309
QY 1030 TATTCATTTTGCCTCAATCAAAAGCTTTCAATTTTATTTTATTTGTTAGAAATACT 1089
DB 1308 TTTTATATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 1249
QY 1090 TCTTCATAGCACATCTCTCAACCTAATATTTGGAATATTTGTGTCCTTTGTTT 1149
DB 1248 TTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTTATTTT 1189
QY 1150 TCTCTAGATATACATTTTAAAAAAATATAAAGCTACCAATCTTTGATCAATTTGTA 1209
DB 1188 CCTCATTTTTCACGCTGTATATATAGGATCTTTGACCTGTTCTTTTGGGGAGG 1129
QY 1210 ATGTTAAGAATTTTATATCTGTTAAATATATAA 1245
DB 1128 TTGTAAGAATATTTTACTTATAGTAGTCGAA 1093
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Job time : 92 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: August 20, 2003, 13:48:04 ; Search time 309 Seconds

(without alignments)
9145.443 Million cell updates/sec

Title: US-09-938-418-2

Perfect score: 1257
Sequence: 1 ggagagagcgcgcggtga.....ataaaattttcccaaca 1257

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 1517243 seqs, 1124081882 residues

Total number of hits satisfying chosen parameters: 3034486

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA:*

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2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
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6: /cgn2_6/ptodata/1/pubpna/PCTOS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
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12: /cgn2_6/ptodata/1/pubpna/US09_NEW_PUB.seq:*
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14: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
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17: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1257	100.0	1257	US-09-938-418-2	Sequence 2, Appli
2	1257	100.0	1257	US-09-946-374-430	Sequence 410, App
3	1257	100.0	1257	US-10-015-387A-430	Sequence 421, App
4	1257	100.0	1257	US-10-063-735-121	Sequence 130, App
5	1257	100.0	1257	US-10-006-130A-430	Sequence 430, App
6	1257	100.0	1257	US-10-199-672-365	Sequence 365, App
7	1257	100.0	1257	US-10-006-172A-430	Sequence 430, App
8	1257	100.0	1257	US-10-187-749-365	Sequence 365, App
9	1257	100.0	1257	US-10-194-457-365	Sequence 365, App
10	1257	100.0	1257	US-10-006-867-121	Sequence 121, App
11	1257	100.0	1257	US-10-052-586-365	Sequence 365, App
12	1257	100.0	1257	US-10-063-547-121	Sequence 121, App
13	1257	100.0	1257	US-10-174-590-365	Sequence 365, App
14	1257	100.0	1257	US-10-176-758-365	Sequence 365, App
15	1257	100.0	1257	US-10-175-737-365	Sequence 365, App
16	1257	100.0	1257	US-10-063-616-121	Sequence 121, App

17	1257	100.0	1257	14	US-10-173-706-365	Sequence 365, App
18	1257	100.0	1257	14	US-10-175-738-365	Sequence 365, App
19	1257	100.0	1257	14	US-10-175-752-365	Sequence 365, App
20	1257	100.0	1257	14	US-10-176-488-365	Sequence 365, App
21	1257	100.0	1257	14	US-10-176-757-365	Sequence 365, App
22	1257	100.0	1257	14	US-10-176-913-365	Sequence 365, App
23	1257	100.0	1257	14	US-10-180-552-365	Sequence 365, App
24	1257	100.0	1257	14	US-10-180-557-365	Sequence 365, App
25	1257	100.0	1257	14	US-10-063-502-121	Sequence 121, App
26	1257	100.0	1257	14	US-10-173-700-365	Sequence 365, App
27	1257	100.0	1257	14	US-10-174-572-365	Sequence 365, App
28	1257	100.0	1257	14	US-10-174-579-365	Sequence 365, App
29	1257	100.0	1257	14	US-10-174-582-365	Sequence 365, App
30	1257	100.0	1257	14	US-10-174-588-365	Sequence 365, App
31	1257	100.0	1257	14	US-10-175-739-365	Sequence 365, App
32	1257	100.0	1257	14	US-10-175-740-365	Sequence 365, App
33	1257	100.0	1257	14	US-10-175-743-365	Sequence 365, App
34	1257	100.0	1257	14	US-10-176-488-365	Sequence 365, App
35	1257	100.0	1257	14	US-10-176-492-365	Sequence 365, App
36	1257	100.0	1257	14	US-10-176-747-365	Sequence 365, App
37	1257	100.0	1257	14	US-10-176-750-365	Sequence 365, App
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41	1257	100.0	1257	14	US-10-176-993-365	Sequence 365, App
42	1257	100.0	1257	14	US-10-184-658-365	Sequence 365, App
43	1257	100.0	1257	14	US-10-176-991-365	Sequence 365, App
44	1257	100.0	1257	14	US-10-173-695-365	Sequence 365, App
45	1257	100.0	1257	14	US-10-173-697-365	Sequence 365, App

ALIGNMENTS

RESULT 1
US-09-938-418-2
Sequence 2, Application US/09938418
Patent No. US20020161199A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi J.
APPLICANT: Goddard, Audrey
APPLICANT: Gurney, Austin L.
APPLICANT: Polakis, Paul
APPLICANT: Williams, P. McKey
APPLICANT: Wood, William I.
APPLICANT: Wu, Thomas D.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND TREATMENT OF TUMOR
FILE REFERENCE: P5009R1
CURRENT APPLICATION NUMBER: US/09/938,418
CURRENT FILING DATE: 2001-08-23
PRIOR APPLICATION NUMBER: 60/081,071
PRIOR FILING DATE: 1998-04-07
PRIOR APPLICATION NUMBER: 60/085,697
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/097,022
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/101,922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/103,679
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US00/04342
PRIOR FILING DATE: 2000-02-18

[illegible]

;; PRIOR FILING DATE: 1998-10-06
;; PRIOR APPLICATION NUMBER: 60/103633
;; PRIOR FILING DATE: 1998-10-08
;; PRIOR APPLICATION NUMBER: 60/103678
;; PRIOR FILING DATE: 1998-10-08
;; PRIOR APPLICATION NUMBER: 60/103679
;; PRIOR FILING DATE: 1998-10-08
;; PRIOR APPLICATION NUMBER: 60/103711
;; PRIOR FILING DATE: 1998-10-08
;; PRIOR APPLICATION NUMBER: 60/104257
;; PRIOR FILING DATE: 1998-10-14
;; PRIOR APPLICATION NUMBER: 60/104987
;; PRIOR FILING DATE: 1998-10-20
;; PRIOR APPLICATION NUMBER: 60/105000
;; PRIOR FILING DATE: 1998-10-20
;; PRIOR APPLICATION NUMBER: 60/105002
;; PRIOR FILING DATE: 1998-10-20
;; PRIOR APPLICATION NUMBER: 60/105104
;; PRIOR FILING DATE: 1998-10-21
;; PRIOR APPLICATION NUMBER: 60/105169
;; PRIOR FILING DATE: 1998-10-22
;; PRIOR APPLICATION NUMBER: 60/105266
;; PRIOR FILING DATE: 1998-10-22
;; PRIOR APPLICATION NUMBER: 60/105693
;; PRIOR FILING DATE: 1998-10-26
;; PRIOR APPLICATION NUMBER: 60/105694
;; PRIOR FILING DATE: 1998-10-26
;; PRIOR APPLICATION NUMBER: 60/105807

Query Match 100.0%; Score 1257; DB 11; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,3e-281; Indels 0; Gaps 0;
Matches 1257; Conservative 0; Mismatches 0;

QY 1 GGAGAGAGCGCGGGGTGAAAGCGCATGTGACAGCCCTGGGCGCTCGAGCGCG 60
DB 1 GGAGAGAGCGCGGGGTGAAAGCGCATGTGACAGCCCTGGGCGCTCGAGCGCG 60
QY CGGAGCGCAGCGCTGACCGAGTCTCTCCCTCGCTCTCCGCTCCAGCTCCGCGCTG 120
DB CGGAGCGCAGCGCTGACCGAGTCTCTCCCTCGCTCTCCGCTCCAGCTCCGCGCTG 120
QY 121 CCCGCGACCGCGGAGCGCATGCGACCCCGAGGCGCGCGCTCCCGAGGCGCGCG 180
DB 121 CCCGCGACCGCGGAGCGCATGCGACCCCGAGGCGCGCGCTCCCGAGGCGCGCG 180
QY 181 GCTCTCTGCTCTCTCTGCTGCAAGTCCCGCGCGCTCGAGCGCTCTGAGATCCCA 240
DB 181 GCTCTCTGCTCTCTCTGCTGCAAGTCCCGCGCGCTCGAGCGCTCTGAGATCCCA 240
QY 241 AGGGGAAGCAAAAGCGCGAGTCCCGCGAGAGGAGTGTGAGCTGTATATGGAATGT 300
DB 241 AGGGGAAGCAAAAGCGCGAGTCCCGCGAGAGGAGTGTGAGCTGTATATGGAATGT 300
QY 301 GCTTACAAGGCGCAGAGAGTCCCGTGGTGGAGAGCGCGCGCGCATGTATATTC 360
DB 301 GCTTACAAGGCGCAGAGAGTCCCGTGGTGGAGAGCGCGCGCATGTATATTC 360
QY 361 CGGCTACACTGGATCCAGGTGCGGATGATTCAAAGGAGAAAGGGGAAATGTCTGA 420
DB 361 CGGCTACACTGGATCCAGGTGCGGATGATTCAAAGGAGAAAGGGGAAATGTCTGA 420
QY 421 GGGAAAGCTTGGAGAGTCTGCGAGACCCCACTACAGCATGTTCATGAGTTCAATGA 480
DB 421 GGGAAAGCTTGGAGAGTCTGCGAGACCCCACTACAGCATGTTCATGAGTTCAATGA 480
QY 481 ATTATGCGATGATCTTGGAAATTCGAGAGTGTATACAAAGATGCGTTCAATA 540
DB 481 ATTATGCGATGATCTTGGAAATTCGAGAGTGTATACAAAGATGCGTTCAATA 540
QY 541 GTGCTTAAGAAGTTTGTTCAGTGTCTACTTGGCTCAATTAATGAGAAATGCATGCTGC 600
DB 541 GTGCTTAAGAAGTTTGTTCAGTGTCTACTTGGCTCAATTAATGAGAAATGCATGCTGC 600

QY 601 AGCGTTGGTATTTCACTCAATGAGAGTGAATGTTCAAGAGCCTCTCCATGAGCTA 660
DB 601 AGCGTTGGTATTTCACTCAATGAGAGTGAATGTTCAAGAGCCTCTCCATGAGCTA 660
QY 661 TAATTTATTTGGACCAAGGAGCCCTGAAGCAATTCACATTAATATATGAGCTT 720
DB 661 TAATTTATTTGGACCAAGGAGCCCTGAAGCAATTCACATTAATATATGAGCTT 720
QY 721 CTTCGTGGAGAGTCTTGTGAGAGATTTGGTGTGATGATGATGATGATGATGATG 780
DB 721 CTTCGTGGAGAGTCTTGTGAGAGATTTGGTGTGATGATGATGATGATGATGATG 780
QY 781 TTGGCAGCTTGTTCAGATTCACCAAGAGAGATGCTTCTACGAGATGAGATTCAGTTC 840
DB 781 TTGGCAGCTTGTTCAGATTCACCAAGAGAGATGCTTCTACGAGATGAGATTCAGTTC 840
QY 841 GCATCATTTATGAGAGTCTTACCAAAATTAAGCTTAATTTCTACCTACCTCTCTT 900
DB 841 GCATCATTTATGAGAGTCTTACCAAAATTAAGCTTAATTTCTACCTACCTCTCTT 900
QY 901 TTATTTGCTTGGAGATGTTCACTTAATGATGATTAATTAATTAATTAATTAATTA 960
DB 901 TTATTTGCTTGGAGATGTTCACTTAATGATGATTAATTAATTAATTAATTAATTA 960
QY 961 GATGAGAGAGAGAGTCTTAATGATGATTAATGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 961 GATGAGAGAGAGAGTCTTAATGATGATTAATGAGAGAGAGAGAGAGAGAGAGAG 1020
QY 1021 ATCTAGCATTTATTTGCTTGTGATGATGATGATGATGATGATGATGATGATGATG 1080
DB 1021 ATCTAGCATTTATTTGCTTGTGATGATGATGATGATGATGATGATGATGATGATG 1080
QY 1081 AGAATACCTTCTCTCACTCACTCTCACTCACTCACTCACTCACTCACTCACTCACT 1140
DB 1081 AGAATACCTTCTCTCACTCACTCTCACTCACTCACTCACTCACTCACTCACTCACT 1140
QY 1141 TTTGTTTTTCTCTTATGATGATGATGATGATGATGATGATGATGATGATGATG 1200
DB 1141 TTTGTTTTTCTCTTATGATGATGATGATGATGATGATGATGATGATGATGATG 1200
QY 1201 AATTGTAAATGTTAAGATTTTATCTGTAAATTAATTAATTAATTAATTAATTA 1257
DB 1201 AATTGTAAATGTTAAGATTTTATATCTGTAAATTAATTAATTAATTAATTAATTA 1257

RESULT 3
US-10-015-387A-430
; Sequence 430, Application US/10015387A
; Publication No. US20030135034A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2830P1C54
; CURRENT APPLICATION NUMBER: US/10/015,387A
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION REMOVED - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 430
; LENGTH: 1257

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; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-015-387A-430

Query Match      100.0%; Score 1257; DB 12; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2.3e-281;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGAGAGAGGCGGCGGGGTGAAAGGCGCATGTGACAGCTGCGGCGGCTCGAGAGCGG 60
DB 1 GGAGAGAGGCGGCGGGGTGAAAGGCGCATGTGACAGCTGCGGCGGCTCGAGAGCGG 60
OY 61 CGAGAGCAGACCTGACACAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 61 CGAGAGCAGACCTGACACAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
OY 121 CCCGGAGCGCGGAGCGCATGCGACCCCGAGGCGCGCGCGCGCGCGCGCGCGCGG 180
DB 121 CCCGGAGCGCGGAGCGCATGCGACCCCGAGGCGCGCGCGCGCGCGCGCGCGCGG 180
OY 181 GCTCTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 181 GCTCTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
OY 241 AGGGAGAGCAAAAGGCGCAGCTCCGCGCAGAGGAGGAGGTGTGACCTGTATTAATGAATGT 300
DB 241 AGGGAGAGCAAAAGGCGCAGCTCCGCGCAGAGGAGGAGGTGTGACCTGTATTAATGAATGT 300
OY 301 GCTTACAAAGGCGCAGAGAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
DB 301 GCTTACAAAGGCGCAGAGAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
OY 361 CGGCTACACCTGCGATCCGAGTCCGAGTGGATGATTCAGAGAGAGAGAGAGAGAGTCTGA 420
DB 361 CGGCTACACCTGCGATCCGAGTCCGAGTGGATGATTCAGAGAGAGAGAGAGAGTCTGA 420
OY 421 GGGAAAGCTTTGAGAGAGTCTGAGACCCCACTACAGCAGTGTTCATGAGTTCATGA 480
DB 421 GGGAAAGCTTTGAGAGAGTCTGAGACCCCACTACAGCAGTGTTCATGAGTTCATGA 480
OY 481 ATTATGCGATATCTGTGGAAATTTGGGAGTGTACATTTTCCAAAGAGCGCTTCCAAATA 540
DB 481 ATTATGCGATATCTGTGGAAATTTGGGAGTGTACATTTTCCAAAGAGCGCTTCCAAATA 540
OY 541 GTGCTCTAGAGCTTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
DB 541 GTGCTCTAGAGCTTTTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
OY 601 AGCGTTGGTATTTACATTTCAATGAGAGTGTGATGTTGACAGACCTCTTCCATTTGAAGCTA 660
DB 601 AGCGTTGGTATTTACATTTCAATGAGAGTGTGATGTTGACAGACCTCTTCCATTTGAAGCTA 660
OY 661 TAATTTATTTGAGCAAGGAGCGCTGAAATGAATTCATTAATTCATTCATTCATTCATTCAT 720
DB 661 TAATTTATTTGAGCAAGGAGCGCTGAAATGAATTCATTAATTCATTCATTCATTCATTCAT 720
OY 721 CTTCGTGGAAGAGCTTTGTGAAGAAATTTGTCTGATGATGATGATGATGATGATGATG 780
DB 721 CTTCGTGGAAGAGCTTTGTGAAGAAATTTGTCTGATGATGATGATGATGATGATGATG 780
OY 781 TTGGCAGCTTTGACATTTACCAAAAGAGAGTCTTCTGATGAGATTTAGTTCAGTTTCTC 840
DB 781 TTGGCAGCTTTGACATTTACCAAAAGAGAGTCTTCTGATGAGATTTAGTTCAGTTTCTC 840
OY 841 GCATCATTTATGAGAGAGTACCAAAATTAATGCTTTAATTTTCAATTTGCTACTCTCTTTT 900
DB 841 GCATCATTTATGAGAGAGTACCAAAATTAATGCTTTAATTTTCAATTTGCTACTCTCTTTT 900
OY 901 TTATTTATGCTTTGAGATGCTTCACTTAATGACATTTTAAATGAATTTATGATATCATCT 960
DB 901 TTATTTATGCTTTGAGATGCTTCACTTAATGACATTTTAAATGAATTTATGATATCATCT 960
OY 961 GAATGAAAGCAAAAGCTTAATATGTTTACAGCAAAAGTGTGATTTTCACATGTTTAA 1020
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DB 961 GAATGAAAGCAAAAGCTTAATATGTTTACAGCAAAAGTGTGATTTTCACATGTTTAA 1020
OY 1021 ATCTACATTTATTCATTTTGTCTTCAATCAAAAGTGTCTTCAATTTTGTAGTGTGT 1080
DB 1021 ATCTACATTTATTCATTTTGTCTTCAATCAAAAGTGTCTTCAATTTTGTAGTGTGT 1080
OY 1081 AGAATCTTTCTTCAATGACATTTCTCTCAACCTTTAAATTTGGAATTTGTGTGTCT 1140
DB 1081 AGAATCTTTCTTCAATGACATTTCTCTCAACCTTTAAATTTGGAATTTGTGTGTCT 1140
OY 1141 TTTGTTTCTTCTTCAATGACATTTTAAATTTTAAATTTAAAGTACCAATCTTTGTAC 1200
DB 1141 TTTGTTTCTTCTTCAATGACATTTTAAATTTTAAATTTAAAGTACCAATCTTTGTAC 1200
OY 1201 AATTGTAAATGTAGATTTTATATCTGTAAATTAATTAATTTATTTCCACA 1257
DB 1201 AATTGTAAATGTAGATTTTATATCTGTAAATTAATTAATTTATTTCCACA 1257

RESULT 4
US-10-063-735-121
; Sequence 121, Application US/10063735
; Publication No. US20030138882A1
; GENERAL INFORMATION:
; APPLICANT: Eaton, Dan L.
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerlitsen, Mary E.
; APPLICANT: Goddard, Audrey J.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NOCLEIC
; FILE REFERENCE: P3230R1C1
; CURRENT APPLICATION NUMBER: US/10/063,735
; CURRENT FILING DATE: 2002-05-08
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 121
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-063-735-121

Query Match      100.0%; Score 1257; DB 12; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2.3e-281;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGAGAGAGGCGGCGGGGTGAAAGGCGCATGTGACAGCTGCGGCGGCTCGAGAGCGG 60
DB 1 GGAGAGAGGCGGCGGGGTGAAAGGCGCATGTGACAGCTGCGGCGGCTCGAGAGCGG 60
OY 61 CGAGAGCAGACCTGACACAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 61 CGAGAGCAGACCTGACACAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
OY 121 CCCGGAGCGCGGAGCGCATGCGACCCCGAGGCGCGCGCGCGCGCGCGCGCGG 180
DB 121 CCCGGAGCGCGGAGCGCATGCGACCCCGAGGCGCGCGCGCGCGCGCGCGCGG 180
OY 181 GCTCTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 181 GCTCTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
OY 241 AGGGAGAGCAAAAGGCGCAGCTCCGCGCAGAGGAGGAGGTGTGACCTGTATTAATGAATGT 300
DB 241 AGGGAGAGCAAAAGGCGCAGCTCCGCGCAGAGGAGGAGGTGTGACCTGTATTAATGAATGT 300
OY 301 GCTTACAAAGGCGCAGAGAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
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Db 301 GCTTACAAGGCCAGAGAGTGCCTGTGTGAGACGGGAGCCCTGGGCCAATGTATTC 360
QY 361 CGGGTACACCTGGGATCCAGTGGGATGCAATCAAGAGAAAAGGGGAATGTCTGA 420
Db 361 CGGGTACACCTGGGATCCAGTGGGATGCAATCAAGAGAAAAGGGGAATGTCTGA 420
QY 421 GGGAAAGCTTTGAGAGATCTTGGACACCCAACTACAGAGATGTTCAATGGAGTTGA 480
Db 421 GGGAAAGCTTTGAGAGATCTTGGACACCCAACTACAGAGATGTTCAATGGAGTTGA 480
QY 481 ATATGACATAGATCTTGGGAAAATTCGAGATGTACATTTACAAAGATGGCTTCAATA 540
Db 481 ATATGACATAGATCTTGGGAAAATTCGAGATGTACATTTACAAAGATGGCTTCAATA 540
QY 541 GTGCTCTAAGAGTTTGTCTAGTGGCTCACTTCCGCTAAAATGAGAAATGCATGCTGC 600
Db 541 GTGCTCTAAGAGTTTGTCTAGTGGCTCACTTCCGCTAAAATGAGAAATGCATGCTGC 600
QY 601 AGCGTTGGTATTTACATTCATGAGCTGAATGTTCAAGACCTTCCCATTTGAAGCTA 660
Db 601 AGCGTTGGTATTTACATTCATGAGCTGAATGTTCAAGACCTTCCCATTTGAAGCTA 660
QY 661 TAAATTTATTTGACCAAGAGAGCCCTGAATGAATCAACAATTAATTCATGCACTT 720
Db 661 TAAATTTATTTGACCAAGAGAGCCCTGAATGAATCAACAATTAATTCATGCACTT 720
QY 721 CTCTGTGAGAGAGCTTTGTGAGAGAAATGGTCTGATTAAGTGAATGTTCTATCTGG 780
Db 721 CTCTGTGAGAGAGCTTTGTGAGAGAAATGGTCTGATTAAGTGAATGTTCTATCTGG 780
QY 781 TTGGCATTGTGATGATTAACCAAGAGAGATGCTTCTACAGATGAGATTCATTTCTC 840
Db 781 TTGGCATTGTGATGATTAACCAAGAGAGATGCTTCTACAGATGAGATTCATTTCTC 840
QY 841 GCATCATTTATGAGAACTACCAAAATTAATGCTTAAATTTCTATTTGCTACTCTTTT 900
Db 841 GCATCATTTATGAGAACTACCAAAATTAATGCTTAAATTTCTATTTGCTACTCTTTT 900
QY 901 TTATTTAGCTTGGCAATGCTTCACTTAATGATTAATTAATTAATTAATTAATTAAT 960
Db 901 TTATTTAGCTTGGCAATGCTTCACTTAATGATTAATTAATTAATTAATTAATTAAT 960
QY 961 GAATGAAGCAAGAGCTTAATATGTTTACAGACCAAGTGTGATTTCACTGTTTAA 1020
Db 961 GAATGAAGCAAGAGCTTAATATGTTTACAGACCAAGTGTGATTTCACTGTTTAA 1020
QY 1021 ATCTAGCATTAATTTGCTTCAATCAAAAGTGTTCATTAATTTTAACTGTTTAA 1080
Db 1021 ATCTAGCATTAATTTGCTTCAATCAAAAGTGTTCATTAATTTTAACTGTTTAA 1080
QY 1081 AGAATACTTCTTATAGTCACTATTCCTCACTTAATTAATTAATTAATTAATTAAT 1140
Db 1081 AGAATACTTCTTATAGTCACTATTCCTCACTTAATTAATTAATTAATTAATTAAT 1140
QY 1141 TTGTTTTTCTCTAGATAGCATTTTAAAAAATTAATTAATTAATTAATTAATTAAT 1200
Db 1141 TTGTTTTTCTCTAGATAGCATTTTAAAAAATTAATTAATTAATTAATTAATTAAT 1200
QY 1201 AATTTGTAATGTTAAGAAATTTTATATCTGTTAAATTAATTAATTAATTAATTAAT 1257
Db 1201 AATTTGTAATGTTAAGAAATTTTATATCTGTTAAATTAATTAATTAATTAATTAAT 1257

RESULT 5
US-10-006-130A-430
; Sequence 430, Application US/10006130A
; Publication No. US20030148375A1

; GENERAL INFORMATION:

; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone

APPLICANT: Pong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C7
CURRENT FILING DATE: 2002-03-19
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 430
LENGTH: 1257
TYPE: DNA
ORGANISM: Homo Sapien
US-10-006-130A-430
Query Match 100.0%; Score 1257; DB 12; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,3e-281; Mismatches 0; Gaps 0;
Matches 1257; Conservative 0; Indels 0; Gaps 0;
QY 1 GGAGAGAGCGCGGGGTAAAGCGCATTTGATGACAGCTGCGCGGCTTGAGCGCG 60
Db 1 GGAGAGAGCGCGGGGTAAAGCGCATTTGATGACAGCTGCGCGGCTTGAGCGCG 60
QY 61 CGGAGCCAGAGCGTGCACCTTCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
Db 61 CGGAGCCAGAGCGTGCACCTTCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
QY 121 CCGGCGAGCGGGAGCCATGCGACCGACCGGCGCGCGCGCTCCCGAGCGGCTCGCG 180
Db 121 CCGGCGAGCGGGAGCCATGCGACCGACCGGCGCGCGCGCTCCCGAGCGGCTCGCG 180
QY 181 GCGTCTGCTGCT 240
Db 181 GCGTCTGCTGCT 240
QY 241 AGGGGAAGCAAAAGCGCGAGCTCGGCAAGAGGAGTGTGACCTGTATTAATGAAATGT 300
Db 241 AGGGGAAGCAAAAGCGCGAGCTCGGCAAGAGGAGTGTGACCTGTATTAATGAAATGT 300
QY 301 GCTTACAAGGCGCAGAGAGTGCCTGTCAGACGGGAGCCCTGGGCCAATGTATTC 360
Db 301 GCTTACAAGGCGCAGAGAGTGCCTGTCAGACGGGAGCCCTGGGCCAATGTATTC 360
QY 361 CGGGTACACCTGGGATCCAGTGGGATGCAATCAAGAGAAAAGGGGAATGTCTGA 420
Db 361 CGGGTACACCTGGGATCCAGTGGGATGCAATCAAGAGAAAAGGGGAATGTCTGA 420
QY 421 GGGAAAGCTTTGAGAGATCTTGGACACCCAACTACAGAGATGTTCAATGGAGTTGA 480
Db 421 GGGAAAGCTTTGAGAGATCTTGGACACCCAACTACAGAGATGTTCAATGGAGTTGA 480
QY 481 ATATGACATAGATCTTGGGAAAATTCGAGATGTACATTTACAAAGATGGCTTCAATA 540
Db 481 ATATGACATAGATCTTGGGAAAATTCGAGATGTACATTTACAAAGATGGCTTCAATA 540
QY 541 GTGCTCTAAGAGTTTGTCTAGTGGCTCACTTCCGCTAAAATGAGAAATGCATGCTGC 600
Db 541 GTGCTCTAAGAGTTTGTCTAGTGGCTCACTTCCGCTAAAATGAGAAATGCATGCTGC 600
QY 601 AGCGTTGGTATTTACATTCATGAGCTGAATGTTCAAGACCTTCCCATTTGAAGCTA 660
Db 601 AGCGTTGGTATTTACATTCATGAGCTGAATGTTCAAGACCTTCCCATTTGAAGCTA 660
QY 661 TAAATTTATTTGACCAAGAGAGCCCTGAATGAATCAACAATTAATTAATTCATGCACTT 720
Db 661 TAAATTTATTTGACCAAGAGAGCCCTGAATGAATCAACAATTAATTAATTCATGCACTT 720

OY 721 CTTCTGTGAGAGACTTTGTGAAGGAAATGTTGCTGAGATTAAGTGTCTATCTGCGG 780
DB 721 CTTCTGTGAGAGACTTTGTGAAGGAAATGTTGCTGAGATTAAGTGTCTATCTGCGG 780
OY 781 TTGGCACTTGTTCAGATTACCCAAAAGAGATGCTTCTACTGATGGAATTCAGTTTCTC 840
DB 781 TTGGCACTTGTTCAGATTACCCAAAAGAGATGCTTCTACTGATGGAATTCAGTTTCTC 840
OY 841 GCATCATTAATGAGAACTACCAAAATTAATGCTTAATTTTCATTTGCTACCTCTTTT 900
DB 841 GCATCATTAATGAGAACTACCAAAATTAATGCTTAATTTTCATTTGCTACCTCTTTT 900
OY 901 TTATTAATGCTTGAAGTGTTCATTAATGATTAATTAATTAATTAATTAATTAATTAAT 960
DB 901 TTATTAATGCTTGAAGTGTTCATTAATGATTAATTAATTAATTAATTAATTAATTAAT 960
OY 961 GAATGAAAAGCAAGCTAAATATGTTTACAGACCAAGTGTGATTTTCAACGCTTTTAA 1020
DB 961 GAATGAAAAGCAAGCTAAATATGTTTACAGACCAAGTGTGATTTTCAACGCTTTTAA 1020
OY 1021 AACTAGCATTAATTTGCTTCAATCAAAAGTGTTCATTAATTTTATTTAGTTGGTT 1080
DB 1021 AACTAGCATTAATTTGCTTCAATCAAAAGTGTTCATTAATTTTATTTAGTTGGTT 1080
OY 1081 AGAATACCTTCTCATAGTACATTCCTCAACCTTAATTTGGAATTTGTTGTGCT 1140
DB 1081 AGAATACCTTCTCATAGTACATTCCTCAACCTTAATTTGGAATTTGTTGTGCT 1140
OY 1141 TTGTTTTTCTCTAGTATGATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1200
DB 1141 TTGTTTTTCTCTAGTATGATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1200
OY 1201 AATTTGTAATGTTAAGATTTTATTTATCTGTAATTAATTAATTAATTTTCCACA 1257
DB 1201 AATTTGTAATGTTAAGATTTTATTTATCTGTAATTAATTAATTAATTTTCCACA 1257

RESULT 6
US-10-199-672-365

; Sequence 365, Application US/10199672
; Publication No. US20030148442A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3430R1C1
; CURRENT APPLICATION NUMBER: US/10/199,672
; PRIOR FILING DATE: 2002-07-18
; PRIOR APPLICATION NUMBER: US/10/052,586
; PRIOR FILING DATE: 2002-01-15
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059266
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/063120
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063121
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063486
; PRIOR FILING DATE: 1997-10-21

; PRIOR APPLICATION NUMBER: 60/063540
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063541
; PRIOR FILING DATE: 1997-10-28
; PRIOR APPLICATION NUMBER: 60/063544
; PRIOR FILING DATE: 1997-10-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 612
; SEQ ID NO 365
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-199-672-365
Query Match 100.0%; Score 1257; DB 12; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,3e+281;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGAGAGAGCGCGGGGTGAAGGCGCATTAATGACAGCTGCGGCGCTCGGAGCGCG 60
DB 1 GGAGAGAGCGCGGGGTGAAGGCGCATTAATGACAGCTGCGGCGCTCGGAGCGCG 60
OY 61 CGAGAGCAAGCTGACACAGTCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 61 CGAGAGCAAGCTGACACAGTCT 120
OY 121 CCGGAGCGCGGAGCGCATTAATGACAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
DB 121 CCGGAGCGCGGAGCGCATTAATGACAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
OY 181 GCT 240
DB 181 GCT 240
OY 241 AGGAGAGCAAGGAGCGAGCTCTCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
DB 241 AGGAGAGCAAGGAGCGAGCTCTCGGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
OY 301 GCTTACAGAGCGCGAGAGGAGTCTGCTGAGAGCGGAGCGCTGCGGCGCAATGTTATTC 360
DB 301 GCTTACAGAGCGCGAGAGGAGTCTGCTGAGAGCGGAGCGCTGCGGCGCAATGTTATTC 360
OY 361 CGGATACCTGCGGAGTCCAGAGTGGAGTGAATTAAGAGAGAGAGAGAGAGAGAGAG 420
DB 361 CGGATACCTGCGGAGTCCAGAGTGGAGTGAATTAAGAGAGAGAGAGAGAGAGAGAG 420
OY 421 GGGAAAGCTTTGAGAGTCTCTGACACCCAACTACAGAGTGTATGAGAGTCAATGA 480
DB 421 GGGAAAGCTTTGAGAGTCTCTGACACCCAACTACAGAGTGTATGAGAGTCAATGA 480
OY 481 ATATGAGCATAGATCTTGGAAATTTGCGAGTGTACATTTACAAAGATGCTTCAATA 540
DB 481 ATATGAGCATAGATCTTGGAAATTTGCGAGTGTACATTTACAAAGATGCTTCAATA 540
OY 541 GTGCTTAAGAGTGTGCTCAGTGTCTACCTTGGTAAATGACAGAAATGATGCTGTC 600
DB 541 GTGCTTAAGAGTGTGCTCAGTGTCTACCTTGGTAAATGACAGAAATGATGCTGTC 600
OY 601 AGGTTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 660
DB 601 AGGTTGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 660
OY 661 TAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 720
DB 661 TAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 720
OY 721 CTTCTGTGAGAGACTTTGTGAAGGAAATGTTGCTGAGATTAAGTGTCTATCTGCGG 780
DB 721 CTTCTGTGAGAGACTTTGTGAAGGAAATGTTGCTGAGATTAAGTGTCTATCTGCGG 780
OY 781 TTGGCACTTGTTCAGATTACCCAAAAGAGATGCTTCTACTGATGGAATTCAGTTTCTC 840
DB 781 TTGGCACTTGTTCAGATTACCCAAAAGAGATGCTTCTACTGATGGAATTCAGTTTCTC 840


```

QY      841 GCATCATTTATGGAAGAACTACCAAAATTAATGCTTTAATTTTCATTTGCTACCTCTTTT 900
      841 GCATCATTTATGGAAGAACTACCAAAATTAATGCTTTAATTTTCATTTGCTACCTCTTTT 900
Db      901 TTATTAAGCCCTGGAAAGCTTCCTACTTAAGACATTTTAAATAGTTATATACATCT 960
      901 TTATTAAGCCCTGGAAAGCTTCCTACTTAAGACATTTTAAATAGTTATATACATCT 960
QY      961 GAATGAAGCAAGCAAGTAAATATGTTTACAGACCAAGTGTGATTCACATGTTTTAA 1020
      961 GAATGAAGCAAGCAAGTAAATATGTTTACAGACCAAGTGTGATTCACATGTTTTAA 1020
Db      1021 ATCTAGCATTAATTCATTTTGGCTTCATCAATCAAAAGTGTTCATATTTTTTAACTGGT 1080
      1021 ATCTAGCATTAATTCATTTTGGCTTCATCAATCAAAAGTGTTCATATTTTTTAACTGGT 1080
QY      1081 AGAATCTTTCTTCATGTCACATCTCTCACTATTAATTTGGAATATGTTGGTCT 1140
      1081 AGAATCTTTCTTCATGTCACATCTCTCACTATTAATTTGGAATATGTTGGTCT 1140
Db      1141 TTGTGTTTTCTCTTACTATAGCATTTTAAATAATATAAAGCTACCATCTTTGTAC 1200
      1141 TTGTGTTTTCTCTTACTATAGCATTTTAAATAATATAAAGCTACCATCTTTGTAC 1200
QY      1201 AATTGTAAATGTTAAAGATTTTATATCTGTTAAATRAAAATTAATTTCCACA 1257
      1201 AATTGTAAATGTTAAAGATTTTATATCTGTTAAATRAAAATTAATTTCCACA 1257
Db      1201 AATTGTAAATGTTAAAGATTTTATATCTGTTAAATRAAAATTAATTTCCACA 1257

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RESULT 8

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US-10-187-749-365
: Sequence 365, Application US/10187749
: Publication No. US20030153036A1
: GENERAL INFORMATION:
: APPLICANT: Baker, Kevin P.
: APPLICANT: Chen, Jian
: APPLICANT: Desnoyers, Luc
: APPLICANT: Goddard, Audrey
: APPLICANT: Godowski, Paul J.
: APPLICANT: Gurney, Austin L.
: APPLICANT: Pan, James
: APPLICANT: Smith, Victoria
: APPLICANT: Matanabe, Colin K.
: APPLICANT: Wood, William I.
: APPLICANT: Zhang, Zhen
: TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
: FILE REFERENCE: P3430R1C1
: CURRENT APPLICATION NUMBER: US/10/187,749
: CURRENT FILING DATE: 2002-07-01
: PRIOR APPLICATION NUMBER: US/10/052,586
: PRIOR FILING DATE: 2002-01-15
: PRIOR APPLICATION NUMBER: 60/059263
: PRIOR FILING DATE: 1997-09-18
: PRIOR APPLICATION NUMBER: 60/059266
: PRIOR FILING DATE: 1997-09-18
: PRIOR APPLICATION NUMBER: 60/062250
: PRIOR FILING DATE: 1997-10-17
: PRIOR APPLICATION NUMBER: 60/063120
: PRIOR FILING DATE: 1997-10-24
: PRIOR APPLICATION NUMBER: 60/063121
: PRIOR FILING DATE: 1997-10-24
: PRIOR APPLICATION NUMBER: 60/063486
: PRIOR FILING DATE: 1997-10-21
: PRIOR APPLICATION NUMBER: 60/063540
: PRIOR FILING DATE: 1997-10-28
: PRIOR APPLICATION NUMBER: 60/063541
: PRIOR FILING DATE: 1997-10-28
: PRIOR APPLICATION NUMBER: 60/063544
: PRIOR FILING DATE: 1997-10-28
: Remaining Prior Application data removed - See File Wrapper or PALM.
: NUMBER OF SEQ ID NOS: 612

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: SEQ ID NO 365
: LENGTH: 1257
: TYPE: DNA
: ORGANISM: Homo sapien
US-10-187-749-365

Query Match      100.0%; Score 1257; DB 12; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,3e-281;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGAGAGAGGCGCGGGGTGAAGGCGCATGATGATGACAGCTCGGCGGCGCTCGAGGCGCG 60
      1 GGAGAGAGGCGCGGGGTGAAGGCGCATGATGATGACAGCTCGGCGGCGCTCGAGGCGCG 60
Db      61 CGAGAGCAGAGCGCTGACAGCGTCTCTCGTGGTCTCTCGGCTCGAGCTCGGCGCTG 120
      61 CGAGAGCAGAGCGCTGACAGCGTCTCTCGTGGTCTCTCGGCTCGAGCTCGGCGCTG 120
QY      121 CCCGCGACCGGGAGCCATGCGACCCGAGGCGCCGCGCTCCCGCAGCGCTCGCG 180
      121 CCCGCGACCGGGAGCCATGCGACCCGAGGCGCCGCGCTCCCGCAGCGCTCGCG 180
Db      181 GCGTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
      181 GCGTCTGCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY      241 AGGGGAAGCAAAAGGCGAGCTCCGCGAGAGGAGTGTGAGCTGATATATGGAATGT 300
      241 AGGGGAAGCAAAAGGCGAGCTCCGCGAGAGGAGTGTGAGCTGATATATGGAATGT 300
Db      301 GCTTACAAAGGCGCGAGAGTGTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
      301 GCTTACAAAGGCGCGAGAGTGTGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
QY      361 CGGCTACACCTGGGATCCAGAGTGGGATGATTCAAAGGAAAGGGAATGTGTGA 420
      361 CGGCTACACCTGGGATCCAGAGTGGGATGATTCAAAGGAAAGGGAATGTGTGA 420
Db      421 GGGAAAGCTTTGAGAGTCTCTGACACCCCACTCAAGAGAGTGTTCATGAGTTCAATGA 480
      421 GGGAAAGCTTTGAGAGTCTCTGACACCCCACTCAAGAGAGTGTTCATGAGTTCAATGA 480
QY      481 ATTATGCAATGATCTTGGGAAATTTGCGAGTGTACATTTACAAATATGCTTCAATA 540
      481 ATTATGCAATGATCTTGGGAAATTTGCGAGTGTACATTTACAAATATGCTTCAATA 540
Db      541 GTGCTCAAGAGTTTGTTCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
      541 GTGCTCAAGAGTTTGTTCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 600
QY      601 AGCGTTGATTTTCATCATGATGAGCTGATGAGAGCTCTTCCATTGAAAGCTA 660
      601 AGCGTTGATTTTCATCATGATGAGCTGATGAGAGCTCTTCCATTGAAAGCTA 660
Db      661 TAATTTATTTGGACCAAGGAGCCCTGAATTAAGAAATTAATTAATTCATGCGCACT 720
      661 TAATTTATTTGGACCAAGGAGCCCTGAATTAAGAAATTAATTAATTCATGCGCACT 720
QY      721 CTTCGTGGAAGAGCTTTGGAAGAGTGTGCTGATTAAGAGATGTTGCTATCTG 780
      721 CTTCGTGGAAGAGCTTTGGAAGAGTGTGCTGATTAAGAGATGTTGCTATCTG 780
Db      781 TTGGCACTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 840
      781 TTGGCACTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 840
QY      841 GCATCATTTATGGAAGAACTACCAAAATTAATGCTTTAATTTTCATTTGCTACCTCTTTT 900
      841 GCATCATTTATGGAAGAACTACCAAAATTAATGCTTTAATTTTCATTTGCTACCTCTTTT 900
Db      901 TTATTAAGCCCTGGAAAGCTTCCTACTTAAGACATTTTAAATAGTTATATACATCT 960
      901 TTATTAAGCCCTGGAAAGCTTCCTACTTAAGACATTTTAAATAGTTATATACATCT 960

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QY 961 GAATGAAAGCAAGCTAAATATGTTTACAGACCAAGTGTGATTTTCACACTGTTTTTAA 1020
DB 961 GAATGAAAGCAAGCTAAATATGTTTACAGACCAAGTGTGATTTTCACACTGTTTTTAA 1020
QY 1021 ATCTAGCATTTATTCATTTTGTCTTCATTCACAAAGTGTCTTCATTTTGTGTGCTT 1080
DB 1021 ATCTAGCATTTATTCATTTTGTCTTCATTCACAAAGTGTCTTCATTTTGTGTGCTT 1080
QY 1081 AATAATCTTCTTCATAGTCACATTTCTCAACCTTAATTTGGAATATTTGTGTGCTT 1140
DB 1081 AATAATCTTCTTCATAGTCACATTTCTCAACCTTAATTTGGAATATTTGTGTGCTT 1140
QY 1141 TTTGTTTCTTCTTATAGTATAGCATTTTAAAAAATATTAAGCTACCAATCTTTGTAC 1200
DB 1141 TTTGTTTCTTCTTATAGTATAGCATTTTAAAAAATATTAAGCTACCAATCTTTGTAC 1200
QY 1201 AATTTGTAATGTAGTAATTTTATATCTGTAAATTAATTAATTTATTTTCCAAACA 1257
DB 1201 AATTTGTAATGTAGTAATTTTATATCTGTAAATTAATTAATTTATTTTCCAAACA 1257

RESULT 9

US-10-194-457-365
Sequence 365, Application US/10194457
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3430RJC296
CURRENT APPLICATION NUMBER: US/10/194,457
CURRENT FILING DATE: 2002-07-11
PRIOR APPLICATION NUMBER: 10/052586
PRIOR FILING DATE: 2002-01-15
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059266
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063120
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063121
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063486
PRIOR FILING DATE: 1997-10-21
PRIOR APPLICATION NUMBER: 60/063540
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063541
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063544
PRIOR FILING DATE: 1997-10-28
Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 365
LENGTH: 1257
TYPE: DNA
ORGANISM: Homo Sapien
US-10-194-457-365

Query Match 100.0%; Score 1257; DB 12; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,3e-281;
US-10-194-457-365

Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GGAGAGAGCGCGCGGGTAAAGCGCATTTGATGACGTGGCGGGCTCGAGCGCG 60
DB 1 GGAGAGAGCGCGCGGGTAAAGCGCATTTGATGACGTGGCGGGCTCGAGCGCG 60
QY 61 CGAGGCGAAGCGTGACACAGCTTCTCTCTGCGTCTCTCGGCTCGACGCTCGGCGT 120
DB 61 CGAGGCGAAGCGTGACACAGCTTCTCTCTGCGTCTCTCGGCTCGACGCTCGGCGT 120
QY 121 CCGGCGAGCGGGAGCGATCGGACCCGAGGGCCCGCGCGCTCCCGGAGCGGCTCGGG 180
DB 121 CCGGCGAGCGGGAGCGATCGGACCCGAGGGCCCGCGCGCTCCCGGAGCGGCTCGGG 180
QY 181 GCGCTCGTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
DB 181 GCGCTCGTCTGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
QY 241 AGGCGAAGCAAAAGCGCGACGCTCGGCGAGAGGAGGTGCTGACCTGTATTAATGAATGT 300
DB 241 AGGCGAAGCAAAAGCGCGACGCTCGGCGAGAGGAGGTGCTGACCTGTATTAATGAATGT 300
QY 301 GCTTACAGGCGCGAGAGAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
DB 301 GCTTACAGGCGCGAGAGAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
QY 361 CGGGTACACCTGGGATCCAGGTCGGGATGATTCAAAGAGAAAGGGGGAATGCTGA 420
DB 361 CGGGTACACCTGGGATCCAGGTCGGGATGATTCAAAGAGAAAGGGGGAATGCTGA 420
QY 421 GGGAAAGCTTTGAGAGTCTCTGACACCCCACTACAGAGTGTTCATGAGTTCATTTGA 480
DB 421 GGGAAAGCTTTGAGAGTCTCTGACACCCCACTACAGAGTGTTCATGAGTTCATTTGA 480
QY 481 AATATGCAATGATCTGGGAAATATGCGAGTGTATTTCAAAAGATGCGTCAAAA 540
DB 481 AATATGCAATGATCTGGGAAATATGCGAGTGTATTTCAAAAGATGCGTCAAAA 540
QY 541 GTGCTTAAGAGTTTGTTCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
DB 541 GTGCTTAAGAGTTTGTTCAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
QY 601 AGCGTGTATTTGATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCAT 660
DB 601 AGCGTGTATTTGATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCATTCAT 660
QY 661 TAATTAATTTGAGCAAGAGAGGCGGAAATGAAATTAATTAATTAATTAATTAATTAAT 720
DB 661 TAATTAATTTGAGCAAGAGAGGCGGAAATGAAATTAATTAATTAATTAATTAATTAAT 720
QY 721 CTTCGTGGAAGAGCTTTGTAAGGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
DB 721 CTTCGTGGAAGAGCTTTGTAAGGAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 780
QY 781 TTGGCAGCTGTTCAATTAACCAAAAGAGATGCTTCACTGGATGAATTCAGTTTCTC 840
DB 781 TTGGCAGCTGTTCAATTAACCAAAAGAGATGCTTCACTGGATGAATTCAGTTTCTC 840
QY 841 GCATCATTTTGAAGAACTACCAAAATTAATGCTTAATTTTCAATTTTCAATTTTCAATTT 900
DB 841 GCATCATTTTGAAGAACTACCAAAATTAATGCTTAATTTTCAATTTTCAATTTTCAATTT 900
QY 901 TTAATTAATTTGGAATGCTTCACTTAATTAATTAATTAATTAATTAATTAATTAATTAAT 960
DB 901 TTAATTAATTTGGAATGCTTCACTTAATTAATTAATTAATTAATTAATTAATTAATTAAT 960
QY 961 GAATGAAAGCAAGCTAAATATGTTTACAGACCAAGTGTGATTTTCACACTGTTTTTAA 1020
DB 961 GAATGAAAGCAAGCTAAATATGTTTACAGACCAAGTGTGATTTTCACACTGTTTTTAA 1020
QY 1021 ATCTAGCATTTATTCATTTTGTCTTCATTCACAAAGTGTCTTCATTTTGTGTGCTT 1080
DB 1021 ATCTAGCATTTATTCATTTTGTCTTCATTCACAAAGTGTCTTCATTTTGTGTGCTT 1080

OY 1081 AGAATCTTCTCATAGTCACATCTCTCAACCTATAATTGGAAATTTGTGTGCT 1140
DB 1081 AGAATCTTCTCATAGTCACATCTCTCAACCTATAATTGGAAATTTGTGTGCT 1140
OY 1141 TTTGTTTTTCTTACATGCAATTTTAAAAAATTAACCTACCAATCTTTGAC 1200
DB 1141 TTTGTTTTTCTTACATGCAATTTTAAAAAATTAACCTACCAATCTTTGAC 1200
OY 1201 AATTGTAATGTAAGCAATTTTATATCTGTTAAATATAATTTTCCACA 1257
DB 1201 AATTGTAATGTAAGCAATTTTATATCTGTTAAATATAATTTTCCACA 1257

RESULT 10
US-10-006-867-121
Sequence 121, Application US/10006867
Publication No. US20020119130A1
GENERAL INFORMATION:
APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gutney, Austin L.
APPLICANT: Watanabe, Colin K.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3230P1C1
CURRENT APPLICATION NUMBER: US/10/006, 867
CURRENT FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 60/063435
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/064215
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088740
PRIOR FILING DATE: 1998-06-10
PRIOR APPLICATION NUMBER: 60/088811
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PRIOR APPLICATION NUMBER: 60/088824
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PRIOR APPLICATION NUMBER: 60/089105
PRIOR FILING DATE: 1998-06-12
PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16
PRIOR APPLICATION NUMBER: 60/089653
PRIOR FILING DATE: 1998-06-17
PRIOR APPLICATION NUMBER: 60/089952
PRIOR FILING DATE: 1998-06-19
PRIOR APPLICATION NUMBER: 60/090246
PRIOR FILING DATE: 1998-06-22

PRIOR APPLICATION NUMBER: 60/090444
PRIOR FILING DATE: 1998-06-24
PRIOR APPLICATION NUMBER: 60/090688
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090696
PRIOR FILING DATE: 1998-06-25
PRIOR APPLICATION NUMBER: 60/090862
PRIOR FILING DATE: 1998-06-26
PRIOR APPLICATION NUMBER: 60/091628
PRIOR FILING DATE: 1998-07-02
PRIOR APPLICATION NUMBER: 60/096012
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PRIOR APPLICATION NUMBER: 60/096757
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PRIOR FILING DATE: 1998-08-26
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PRIOR FILING DATE: 1998-09-10
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PRIOR FILING DATE: 1998-09-10
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PRIOR FILING DATE: 1998-09-10
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PRIOR APPLICATION NUMBER: 60/101743
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PRIOR FILING DATE: 1998-10-08
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PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105002
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105881
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/106030

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; PRIOR FILING DATE: 1998-10-28
; PRIOR APPLICATION NUMBER: 60/106464
; PRIOR FILING DATE: 1998-10-30
; PRIOR APPLICATION NUMBER: 60/106856
; PRIOR FILING DATE: 1998-11-03
; PRIOR APPLICATION NUMBER: 60/108807
; PRIOR FILING DATE: 1998-11-17
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; PRIOR APPLICATION NUMBER: 60/113011
; PRIOR FILING DATE: 1998-12-16
; PRIOR APPLICATION NUMBER: 60/112854
; PRIOR FILING DATE: 1998-12-16
; PRIOR APPLICATION NUMBER: 60/113300
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: 60/113408
; PRIOR FILING DATE: 1998-12-22
; PRIOR APPLICATION NUMBER: 60/113430
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/113621
; PRIOR FILING DATE: 1998-12-23
; PRIOR APPLICATION NUMBER: 60/114223
; PRIOR FILING DATE: 1998-12-30
; PRIOR APPLICATION NUMBER: 60/115614
; PRIOR FILING DATE: 1999-01-12
; PRIOR APPLICATION NUMBER: 60/116527
; PRIOR FILING DATE: 1999-01-20
; PRIOR APPLICATION NUMBER: 60/116843
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/119285
; PRIOR FILING DATE: 1999-02-09
; PRIOR APPLICATION NUMBER: 60/119287
; PRIOR FILING DATE: 1999-02-09
; PRIOR APPLICATION NUMBER: 60/119525
; PRIOR FILING DATE: 1999-02-10
; PRIOR APPLICATION NUMBER: 60/119549
; PRIOR FILING DATE: 1999-02-10
; PRIOR APPLICATION NUMBER: 60/120014
; PRIOR FILING DATE: 1999-02-11
; PRIOR APPLICATION NUMBER: 60/129122
; PRIOR FILING DATE: 1999-04-13
; PRIOR APPLICATION NUMBER: 60/129674
; PRIOR FILING DATE: 1999-04-16
; PRIOR APPLICATION NUMBER: 60/131291
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/138387
; PRIOR FILING DATE: 1999-06-09
; PRIOR APPLICATION NUMBER: 60/144791
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/169495
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 60/175481
; PRIOR FILING DATE: 2000-01-11
; PRIOR APPLICATION NUMBER: 60/191007
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/199397
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/380139
; PRIOR FILING DATE: 1998-08-25
; PRIOR APPLICATION NUMBER: 09/311832
; PRIOR FILING DATE: 1999-05-14
; PRIOR APPLICATION NUMBER: 09/380137
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/380138
; PRIOR FILING DATE: 1999-08-25
; PRIOR APPLICATION NUMBER: 09/380142
;
Query Match      100.0%; Score 1257; DB 13; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,3e-281;

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	Matches	1257;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	1	GGAGAGAGGCGCGCGGTGTAAGAGGCGCATTTGATGACGCTGCGGGGCGCTCGAGCGGG	60							
Db	1	GGAGAGAGGCGCGCGGGTGAAGAGGCGCATTTGATGACGCTGCGGGGCGCTCGAGCGGG	60							
QY	61	CGAGCCAGACGCTACCAACGTTCCCTCTCTCGGTCTCTCCGCTCCAGCTCCGAGCTG	120							
Db	61	CGAGCCAGACGCTACCAACGTTCTCTCTCTCGGTCTCTCCGCTCCAGCTCCGAGCTG	120							
QY	121	CCCGGACGCGGGAGACCATGCAACCCCAAGGCCCGCGCTCCCGCAAGCGGCTCGCG	180							
Db	121	CCCGGACGCGGGAGACCATGCAACCCCAAGGGGCCCGCGCTCCCGCAAGCGGCTCGCG	180							
QY	181	GCGTCTGTGTCTCTGCTGCTGCAAGCGCCCGCGCGTTCGAGGCGCTCTGATGCCCA	240							
Db	181	GCGTCTGTGTCTCTGCTGCTGCAAGCGCCCGCGCGTTCGAGGCGCTCTGATGCCCA	240							
QY	241	AGGGAGACAAAAGGCGGAGCTCCGGCAGAGGAGGTGGTGGACCTGTATATGATATGT	300							
Db	241	AGGGAGACAAAAGGCGGAGCTCCGGCAGAGGAGGTGGTGGACCTGTATATGATATGT	300							
QY	301	GCTTCAAGGGCCACGACGAGAGTGCCTGGTCCGAGCGGAGCCCTGGGSCCAATGTTATC	360							
Db	301	GCTTCAAGGGCCACGACGAGAGTGCCTGGTCCGAGCGGAGCCCTGGGSCCAATGTTATC	360							
QY	361	CGGGTACACCTGGGATGCCAGGTGGGGATTCGATCAAGGAAAGGGGGAAATGCTCGA	420							
Db	361	CGGGTACACCTGGGATGCCAGGTGGGGATTCGATCAAGGAAAGGGGGAAATGCTCGA	420							
QY	421	GGGAAGCTTTGAGAGAGTCTGAGACCCCACTACACAGTGTTCATGAGATTCATGGA	480							
Db	421	GGGAAGCTTTGAGAGAGTCTGAGACCCCACTACACAGTGTTCATGAGATTCATGGA	480							
QY	481	ATTATGCAATGATTTGGGAAATTCGGAGGTGTCAATTTCAAAAGATGCGTCAATA	540							
Db	481	ATTATGCAATGATTTGGGAAATTCGGAGGTGTCAATTTCAAAAGATGCGTCAATA	540							
QY	541	GTGCTCTAAGAGTTTGTTCAGTGGCTCACTCGGCTCTAAATGCAAGAAATGCATGCTC	600							
Db	541	GTGCTCTAAGAGTTTGTTCAGTGGCTCACTCGGCTCTAAATGCAAGAAATGCATGCTC	600							
QY	601	AGCGTTGATTTCACTTCATTCATGAGAGCTGATGTTCAGAGCCTTTCCATTGAAGCTA	660							
Db	601	AGCGTTGATTTCACTTCATTCATGAGAGCTGATGTTCAGAGCCTTTCCATTGAAGCTA	660							
QY	661	TAAATTTATTTGGACCAAGAAAGCCCTGAAATGAATTCACAAATTAATTCATGCGACTT	720							
Db	661	TAAATTTATTTGGACCAAGAAAGCCCTGAAATGAATTCACAAATTAATTCATGCGACTT	720							
QY	721	CTTCGTGGAAGAGCTTGTGAGGAATTTGGTGGGATTTAGTGGATGTTCTCTATCGGG	780							
Db	721	CTTCGTGGAAGAGCTTGTGAGGAATTTGGTGGGATTTAGTGGATGTTCTCTATCGGG	780							
QY	781	TTGGACACTGTTGCAGATTAACCAAAAGAGATGCTCTACACGATGCAATTCAGTTCTC	840							
Db	781	TTGGACACTGTTGCAGATTAACCAAAAGAGATGCTCTACACGATGCAATTCAGTTCTC	840							
QY	841	GCAATCATTTGGAAGACTACCAAAATAATGCTTAAATTTTCATTTGCTACTCTTTT	900							
Db	841	GCAATCATTTGGAAGACTACCAAAATAATGCTTAAATTTTCATTTGCTACTCTTTT	900							
QY	901	TTATTTATCCCTGGAAATGCTTCAATTAATGACATTTTAAATTAAGTTATGTATACACT	960							
Db	901	TTATTTATCCCTGGAAATGCTTCAATTAATGACATTTTAAATTAAGTTATGTATACACT	960							
QY	961	GAATGAAGAAAGCAAGCTAAATATGTTTACAGACAAAGTGTGATTTTCACACTGTTTTAA	1020							
Db	961	GAATGAAGAAAGCAAGCTAAATATGTTTACAGACAAAGTGTGATTTTCACACTGTTTTAA	1020							
QY	1021	ATCTAGCATTAATCATTTTGGTTCAATCAATCAAAAGTGGTTCAATATTTTTTTAGTTGGTT	1080							
Db	1021	ATCTAGCATTAATCATTTTGGTTCAATCAATCAAAAGTGGTTCAATATTTTTTTAGTTGGTT	1080							

QY 1081 AGAATCTTCTTCATAGTCACATTCCTCAACCTATATATTTGGAATATGTTGTGCT 1140
1081 AGAATCTTCTTCATAGTCACATTCCTCAACCTATATATTTGGAATATGTTGTGCT 1140
QY 1141 TTTGTTTTCTCTTACTATAGCATTTTATAAAAAATATAAACTACCATCTTTGTAC 1200
1141 TTTGTTTTCTCTTACTATAGCATTTTATAAAAAATATAAACTACCATCTTTGTAC 1200
QY 1201 AATTGTAAATGTTAAGAAATTTTATATCTGTAAATATAATATTTCACACA 1257
1201 AATTGTAAATGTTAAGAAATTTTATATCTGTAAATATAATATTTCACACA 1257
Db 1201 AATTGTAAATGTTAAGAAATTTTATATCTGTAAATATAATATTTCACACA 1257

RESULT 11
US-10-052-586-365
Sequence 365, Application US/10052586
Publication No. US20020127584A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jilan
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gunney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OR INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OR INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3430R1C1
CURRENT APPLICATION NUMBER: US/10/052.586
PRIOR APPLICATION NUMBER: 2002-01-15
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059266
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/063120
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063121
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063486
PRIOR FILING DATE: 1997-10-21
PRIOR APPLICATION NUMBER: 60/063540
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063541
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063544
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063564
PRIOR FILING DATE: 1997-10-28
PRIOR APPLICATION NUMBER: 60/063734
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063870
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/064103
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066120
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066466
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/066772
PRIOR FILING DATE: 1997-11-24
PRIOR APPLICATION NUMBER: 60/069335
PRIOR FILING DATE: 1997-12-11
PRIOR APPLICATION NUMBER: 60/069425
PRIOR FILING DATE: 1997-12-12

PRIOR APPLICATION NUMBER: 60/069870
PRIOR FILING DATE: 1997-12-17
PRIOR APPLICATION NUMBER: 60/068017
PRIOR FILING DATE: 1997-12-18
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/079786
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: 60/080107
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080194
PRIOR FILING DATE: 1998-03-31
PRIOR APPLICATION NUMBER: 60/080327
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/080333
PRIOR FILING DATE: 1998-04-01
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081070
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/081195
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081838
PRIOR FILING DATE: 1998-04-15
PRIOR APPLICATION NUMBER: 60/082568
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082569
PRIOR FILING DATE: 1998-04-21
PRIOR APPLICATION NUMBER: 60/082704
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/083322
PRIOR FILING DATE: 1998-04-28
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083496
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/083499
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PRIOR APPLICATION NUMBER: 60/083559
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
PRIOR APPLICATION NUMBER: 60/084414
PRIOR FILING DATE: 1998-05-06
PRIOR APPLICATION NUMBER: 60/084639
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084640
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/084643
PRIOR FILING DATE: 1998-05-07
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086023

PRIOR FILING DATE: 1998-05-18	PRIOR APPLICATION NUMBER: 60/086392	PRIOR FILING DATE: 1998-05-22	PRIOR APPLICATION NUMBER: 60/086486	PRIOR FILING DATE: 1998-05-22	PRIOR APPLICATION NUMBER: 60/087098	PRIOR FILING DATE: 1998-05-28	PRIOR APPLICATION NUMBER: 60/087208	PRIOR FILING DATE: 1998-05-28	PRIOR APPLICATION NUMBER: 60/087609	PRIOR FILING DATE: 1998-06-02	PRIOR APPLICATION NUMBER: 60/087759	PRIOR FILING DATE: 1998-06-02	PRIOR APPLICATION NUMBER: 60/087827	PRIOR FILING DATE: 1998-06-03	PRIOR APPLICATION NUMBER: 60/088025	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088028	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088029	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088033	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088167	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088202	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088212	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088217	PRIOR FILING DATE: 1998-06-05	PRIOR APPLICATION NUMBER: 60/088326	PRIOR FILING DATE: 1998-06-04	PRIOR APPLICATION NUMBER: 60/088655	PRIOR FILING DATE: 1998-06-09	PRIOR APPLICATION NUMBER: 60/088722	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088738	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088740	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088811	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088824	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088825	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088826	PRIOR FILING DATE: 1998-06-10	PRIOR APPLICATION NUMBER: 60/088861	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/088863	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/088876	PRIOR FILING DATE: 1998-06-11	PRIOR APPLICATION NUMBER: 60/089090	PRIOR FILING DATE: 1998-06-12	PRIOR APPLICATION NUMBER: 60/089105	PRIOR FILING DATE: 1998-06-12	PRIOR APPLICATION NUMBER: 60/089512	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089514	PRIOR FILING DATE: 1998-06-16	PRIOR APPLICATION NUMBER: 60/089538	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089598	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089653	PRIOR FILING DATE: 1998-06-17	PRIOR APPLICATION NUMBER: 60/089908																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Query Match	100.0%;	Score 1257;	DB 13;	Length 1257;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

QY 1081 AGAATCTTTCTCATCTACATCTCTCAACCTATATATTTGGAAATATTTGTGTGCT 1140
DB 1081 AGAATCTTTCTCATCTACATCTCTCAACCTATATATTTGGAAATATTTGTGTGCT 1140
QY 1141 TTTGTTTTCTCTAGATAGCATTTTAAAAAATATAAAGTACCATTCTTTGAC 1200
DB 1141 TTTGTTTTCTCTAGATAGCATTTTAAAAAATATAAAGTACCATTCTTTGAC 1200
QY 1201 AATTTGTAATGTATAGAAATTTTATATCTGTTAAATATATTTTCCACA 1257
DB 1201 AATTTGTAATGTATAGAAATTTTATATCTGTTAAATATATTTTCCACA 1257

RESULT 12
US-10-063-547-121

; Sequence 121, Application US/10063547
; Publication No. US20020182638A1
; GENERAL INFORMATION:
; APPLICANT: Eaton, Dan L.
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gerltsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3230R1C1
; CURRENT FILING DATE: 2002-05-02
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 170
; SEQ ID NO 121
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-063-547-121

Query Match 100.0%; Score 1257; DB 13; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,3e-281;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGAGCGCGCGGTGAAGGCGCATTTATGACGCTCGGCGGCTCGAGCGGG 60
DB 1 GGAGAGAGCGCGCGGTGAAGGCGCATTTATGACGCTCGGCGGCGCTCGAGCGGG 60
QY 61 CGAGCGCGAGCGCTGACCAAGTCTCTCTCGGTCTCTCGCTCCGCTCCAGCTCCGCGCTG 120
DB 61 CGAGCGCGAGCGCTGACCAAGTCTCTCTCGGTCTCTCGCTCCGCTCCAGCTCCGCGCTG 120
QY 121 CCCGCGACCGCGGAGCCATGCGACCCCAAGGCGCGCTCCCGCGAGGCGCTCCGCG 180
DB 121 CCCGCGACCGCGGAGCCATGCGACCCCAAGGCGCGCTCCCGCGAGGCGCTCCGCG 180
QY 181 GCTTCCTGCTGCTGCTGCTGCAAGTCCCGCGCGCTCGAGCGCTCTGATGCCCA 240
DB 181 GCTTCCTGCTGCTGCTGCTGCAAGTCCCGCGCGCTCGAGCGCTCTGATGCCCA 240
QY 241 AGGGAGACCAAAAGGCGAGCTCCGCGAGAGGAGAGTGTGACCTGTATATGGAATGT 300
DB 241 AGGGAGACCAAAAGGCGAGCTCCGCGAGAGGAGAGTGTGACCTGTATATGGAATGT 300
QY 301 GCTTACAAAGGCGACAGAGTGTGCTGCGAGAGGAGGCGCTTGATTTATTC 360
DB 301 GCTTACAAAGGCGACAGAGTGTGCTGCGAGAGGAGGCGCTTGATTTATTC 360
QY 361 CGGTACACCTGGAGTCCAGGTGCGAGTGAATTCAAAGAGAAAAAGGGGAATGTCTGA 420
DB 361 CGGTACACCTGGAGTCCAGGTGCGAGTGAATTCAAAGAGAAAAAGGGGAATGTCTGA 420

QY 421 GGGAAAGCTTTAGAGAGTCTCTGACACCCAACTACAGACAGTTCATGAGTTCATGCA 480
DB 421 GGGAAAGCTTTAGAGAGTCTCTGACACCCAACTACAGACAGTTCATGAGTTCATGCA 480
QY 481 AATATGCGATGATCTTGGGAAATTTGGGAGTGTACATTTCAAAAGTGGCTCAATA 540
DB 481 AATATGCGATGATCTTGGGAAATTTGGGAGTGTACATTTCAAAAGTGGCTCAATA 540
QY 541 GTGCTCTAAGAGTTTGTTCAGTGTCTCTGCGCTTAAATGAGAAATGCATGCTGTC 600
DB 541 GTGCTCTAAGAGTTTGTTCAGTGTCTCTGCGCTTAAATGAGAAATGCATGCTGTC 600
QY 601 AGCGTGTGATTTACATTCATGAGAGTGAATGTTCAGAGCTCTTCCATGGAAGCTA 660
DB 601 AGCGTGTGATTTACATTCATGAGAGTGAATGTTCAGAGCTCTTCCATGGAAGCTA 660
QY 661 TAAATTAATTTGAGCAAGAGAGCCCTGAAATGAATTCAAATTAATTTATGAGCACT 720
DB 661 TAAATTAATTTGAGCAAGAGAGCCCTGAAATGAATTCAAATTAATTTATGAGCACT 720
QY 721 CTTCGTGGAAGAGCTTTGTGAAGAAATTTGCTGTGATTTAGTGAATGCTTATCTGAG 780
DB 721 CTTCGTGGAAGAGCTTTGTGAAGAAATTTGCTGTGATTTAGTGAATGCTTATCTGAG 780
QY 781 TTGGACATTTGTCAGATTTACCCAAAGAGAGTCTTCTACAGATGAGAAATTCAGTTCTC 840
DB 781 TTGGACATTTGTCAGATTTACCCAAAGAGAGTCTTCTACAGATGAGAAATTCAGTTCTC 840
QY 841 GCATCATTAATGAAGAACTACCAAAATTAATGCTTAAATTTCAATTTGCTCTCTCTT 900
DB 841 GCATCATTAATGAAGAACTACCAAAATTAATGCTTAAATTTCAATTTGCTCTCTCTT 900
QY 901 TTAATATGCTTGAATGTTCACTTAATGACATTTTAAATGAATTTATGATATACATCT 960
DB 901 TTAATATGCTTGAATGTTCACTTAATGACATTTTAAATGAATTTATGATATACATCT 960
QY 961 GAATGAAAGCAAAAGCTTAAATATGTTTACAGACCAAGTGTGATTTTCACTGTTTTAA 1020
DB 961 GAATGAAAGCAAAAGCTTAAATATGTTTACAGACCAAGTGTGATTTTCACTGTTTTAA 1020
QY 1021 ATCTAGCATTTATCAATTTTGTCTCAATCAAAAGTGTTCATTAATTTTATGATGCTT 1080
DB 1021 ATCTAGCATTTATCAATTTTGTCTCAATCAAAAGTGTTCATTAATTTTATGATGCTT 1080
QY 1081 AGAATCTTTCTCATCTACATCTCTCAACCTATATATTTGGAATATTTGTGTGCT 1140
DB 1081 AGAATCTTTCTCATCTACATCTCTCAACCTATATATTTGGAATATTTGTGTGCT 1140
QY 1141 TTTGTTTTCTCTAGATAGCATTTTAAAAAATATAAAGTACCATTCTTTGAC 1200
DB 1141 TTTGTTTTCTCTAGATAGCATTTTAAAAAATATAAAGTACCATTCTTTGAC 1200
QY 1201 AATTTGTAATGTATAGAAATTTTATATCTGTTAAATATATTTTCCACA 1257
DB 1201 AATTTGTAATGTATAGAAATTTTATATCTGTTAAATATATTTTCCACA 1257

RESULT 13
US-10-174-590-365

; Sequence 365, Application US/10174590
; Publication No. US20030008352A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Chen, Jian
; APPLICANT: Desnoyers, Luc
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Pan, James
; APPLICANT: Smith, Victoria
; APPLICANT: Watanabe, Colin K.
; APPLICANT: Wood, William I.
; APPLICANT: Zhang, Zemin

```

?
? TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
?
? TITLE OF INVENTION: ACIDS ENCODING THE SAME
? FILE REFERENCE: P3430R1C42
? CURRENT APPLICATION NUMBER: US/10/174,590
?
? CURRENT FILING DATE: 2002-06-18
? Prior application removed - See File Wrapper or Palm
?
? NUMBER OF SEQ ID NOS: 612
?
? SEQ ID NO 365
? LENGTH: 1257
? TYPE: DNA
? ORGANISM: Homo Sapien
US-10-174-590-365

```

Query Match	100.0%	Score 1257	DB 14	Length 1257
Best Local Similarity	100.0%	Pred. NO	2.3e-281	
Matches 1257, Conservative	0	Mismatches	0	Indels 0
				Gaps 0

QY	GGAGAGAGGCGCGGGGTGAAGAGGGGCAATGATGAGCTGGCGGCTCGAGAGCGCG	60
Db	1 GGAAGAGAGGCGCGGGGTGAAGAGGGGCAATGATGAGCTGGCGGCTCGAGAGCGCG	60
QY	CGAGAGCAGACGCTGACACGTTCTCTCTCTGATGCTCTCGGCTCCAGCTCCGCGCTG	120
Db	61 CGAGAGCAGACGCTGACACGTTCTCTCTCTGATGCTCTCGGCTCCAGCTCCGCGCTG	120
QY	121 CCCGGAGCGCGGAGCATGCGACCCGAGGCCCCGCGCTCCCCGAGCGCTCCGCG	180
Db	121 CCCGGAGCGCGGAGCATGCGACCCGAGGCCCCGCGCTCCCCGAGCGCTCCGCG	180
QY	181 GCCTCTGCTGCTCCCTGCTGTGACAGCTGCCCGCGCTGCAAGGCGCTGTAGAGTCCCA	240
Db	181 GCCTCTGCTGCTCCCTGCTGTGACAGCTGCCCGCGCTGCAAGGCGCTGTAGAGTCCCA	240
QY	241 AGGGAGAGCAAAAGCGCAGCTCCGAGAGGAGAGTGTTGACCTGTATAGTAATGT	300
Db	241 AGGGAGAGCAAAAGCGCAGCTCCGAGAGGAGAGTGTTGACCTGTATAGTAATGT	300
QY	301 GCTTACAAGGGGACAGAGAGTGCCTGGTCCAGAGAGGAGCGCTGGGGCCAAATTATTC	360
Db	301 GCTTACAAGGGGACAGAGAGTGCCTGGTCCAGAGAGGAGCGCTGGGGCCAAATTATTC	360
QY	361 CGGGTACACCTGGGATCCGAGTCCGGATGATTCGTAAGAGAGAAAGGGGAAATGTGA	420
Db	361 CGGGTACACCTGGGATCCGAGTCCGGATGATTCGTAAGAGAGAAAGGGGAAATGTGA	420
QY	421 GGGAAAGCTTTGAGAGTCTTGAGACCCAACTACAGCAGTTCATGATTCATGGA	480
Db	421 GGGAAAGCTTTGAGAGTCTTGAGACCCAACTACAGCAGTTCATGATTCATGGA	480
QY	481 AATTAGGCAATAGTCTGGGAAATTTGGGGAGTACATTACAAAGATCGTCAATA	540
Db	481 AATTAGGCAATAGTCTGGGAAATTTGGGGAGTACATTACAAAGATCGTCAATA	540
QY	541 GTGCTTAAGATTTTGTTCAGTGGCTCACTCTGGCTAAATGACAGAAATCATGCTGC	600
Db	541 GTGCTTAAGATTTTGTTCAGTGGCTCACTCTGGCTAAATGACAGAAATCATGCTGC	600
QY	601 AGCGTGTGATTTACATTCATTCATGAGAGTTCAGAGACCTCTCCATTGAACTGA	660
Db	601 AGCGTGTGATTTACATTCATTCATGAGAGTTCAGAGACCTCTCCATTGAACTGA	660
QY	661 TAATTAATTTGAGACCAAGGAGCCCTGAAATGAATTAACAATTAATTCATGCACT	720
Db	661 TAATTAATTTGAGACCAAGGAGCCCTGAAATGAATTAACAATTAATTCATGCACT	720
QY	721 CTTCTGTGAGAGACTTTGTGAGGAATTTGTCTGATTAAGTGAATGTGCTATCTGG	780
Db	721 CTTCTGTGAGAGACTTTGTGAGGAATTTGTCTGATTAAGTGAATGTGCTATCTGG	780
QY	781 TTGGCACTGTTACAGTTTACCCAAAGAGAGTCTACAGAGAGGAAATTCAGTTCTC	840
Db	781 TTGGCACTGTTACAGTTTACCCAAAGAGAGTCTACAGAGAGGAAATTCAGTTCTC	840

OY	841	CCATCATTAATGAAGAACTACCAAAAPAAAGCTTAATTTCCATTTGCTACGCTTTT	900
Db	841	GCATCATTAATGAAGAACTACCAAAAPAAAGCTTAATTTCCATTTGCTACGCTTTT	900
OY	901	TTATTAAGCCCTTGAATGGTTCACTTAATAGCATTTTAAATPAAGTTATGATACACT	960
Db	901	TTATTAAGCCCTTGAATGGTTCACTTAATAGCATTTTAAATPAAGTTATGATACACT	960
OY	961	GAATGAAAGCAAAAGCTTAATATGTTTACAGACCAAAAGTGTGATTTCACTGTTTTAA	1020
Db	961	GAATGAAAGCAAAAGCTTAATATGTTTACAGACCAAAAGTGTGATTTCACTGTTTTAA	1020
OY	1021	ATCAAGCATTAATCAATTTGGCTTCAACCAAAAGGTTCAAATATTTTCTTAACTGGT	1080
Db	1021	ATCAAGCATTAATCAATTTGGCTTCAACCAAAAGGTTCAAATATTTTCTTAACTGGT	1080
OY	1081	AGAACTCTTTCATAGTACATCTCTCAACTCATPAATTTGGAATATTTGTGAGCT	1140
Db	1081	AGAACTCTTTCATAGTACATCTCTCAACTCATPAATTTGGAATATTTGTGAGCT	1140
OY	1141	TTTGTCTTTTCTCTTACTATAGCAATTTTAAAAAAATATAAAGCTACCAATCTTGTAC	1200
Db	1141	TTTGTCTTTTCTCTTACTATAGCAATTTTAAAAAAATATAAAGCTACCAATCTTGTAC	1200
OY	1201	AATTTGTAATAGTAAAGATTTTAAAAATATACGTAAATAAAAATATATTTCCAAA	1257
Db	1201	AATTTGTAATAGTAAAGATTTTAAAAATATATCTTAATATAAAAATATATTTCCAAA	1257

RESULT 14
US-10-176-758-365

; Sequence 365, Application US/10
; Publication No. US2003008353A1
; GENERAL INFORMATION:

```

APPLICANT: Baker, Kevin P.
APPLICANT: Chen, Jian
APPLICANT: Desnoyers, Luc
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Pan, James
APPLICANT: Smith, Victoria
APPLICANT: Watanabe, Collin K.
APPLICANT: Wood, William I.
APPLICANT: Zhang, Zemin
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P4303R1C104
CURRENT APPLICATION NUMBER: US/10/176,758
CURRENT FILING DATE: 2002-06-21
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 612
SEQ ID NO 365
LENGTH: 1257
TYPE: DNA
ORGANISM: Homo Sapien
US-10-176-758-365

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Matches 1257; Conservative	0;	Mismatches	0; Gaps 0;

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Search completed: August 20, 2003, 16:01:55
Job time : 314 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 Comphen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 20, 2003, 12:28:07 ; Search time 4236 Seconds
(without alignments)
9723.603 Million cell updates/sec

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Searched: 32997241 seqs, 1638322548 residues

Total number of hits satisfying chosen parameters: 65994482

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Post-processing: Minimum Match 0%

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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	1257	100.0	40	US-09-946-374-430	Sequence 430, App
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RESULT 2
US-09-946-374-430
Sequence 430, Application US/09946374
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2830P1C1
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CURRENT FILING DATE: 2001-09-04
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PRIOR APPLICATION NUMBER: 60/105693
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105694
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105807
PRIOR FILING DATE: 1998-10-27

Query Match 100.0%; Score 1257; DB 40; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,7e-230; Mismatches 0; Indels 0; Gaps 0;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGAGCGCGGGGTGAAGGCGATTGATGACGCTCGCGGCGCTTGAGCGCG 60
DB 1 GGAGAGAGCGCGGGGTGAAGGCGATTGATGACGCTCGCGGCGCTTGAGCGCG 60
QY 61 CGGAGCCAGACGCGACACCTTCCTCCGCTGCTCCGCTCGCTCGCTCGCTCG 120
DB 61 CGGAGCCAGACGCGACACCTTCCTCCGCTGCTCCGCTCGCTCGCTCGCTCG 120
QY 121 CCCGAGACCGCGGAGCCATGCGACCCAGGCGCCGCGCTCCCGAGCGGCTCGCG 180
DB 121 CCCGAGACCGCGGAGCCATGCGACCCAGGCGCCGCGCTCCCGAGCGGCTCGCG 180
QY 181 GCTCTGCTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 GCTCTGCTGCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 AGGGGAAGCAAAAGGCGGAGCTCGGAGAGGAGGAGGAGGAGGAGGAGGAGG 300
DB 241 AGGGGAAGCAAAAGGCGGAGCTCGGAGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY 301 GCTTACAAGGCGCAGAGAGTGCCTGCTGAGAGGAGGAGGAGGAGGAGGAGGAG 360
DB 301 GCTTACAAGGCGCAGAGAGTGCCTGCTGAGAGGAGGAGGAGGAGGAGGAGGAG 360
QY 361 CGGGTACACCTGGGATCCAGGTGCGGATGATTAAGGAGGAGGAGGAGGAGGAG 420
DB 361 CGGGTACACCTGGGATCCAGGTGCGGATGATTAAGGAGGAGGAGGAGGAGGAG 420
QY 421 GGGAAAGCTTTGAGGAGTCTCTGACACCACTTCAAGCAGTGTTCATGAGATTG 480

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Db      421 GGGAAAGCTTGGAGAGTCTGGACACCCAACTACAGAGTGTATGAGCTTCAATGTA 480
OY      481 ATTATGCAATAGATCTTGGGAAAATTTGCGAGCTGATCATTTTCAAAAGATGCTTCAATA 540
Db      481 ATTATGCAATAGATCTTGGGAAAATTTGCGAGCTGATCATTTTCAAAAGATGCTTCAATA 540
OY      541 GTGCTCTAAGAGCTTTTGTTCAGTGGCTCACTTGGCTAAATATGAGAAATGATGCTGTC 600
Db      541 GTGCTCTAAGAGCTTTTGTTCAGTGGCTCACTTGGCTAAATATGAGAAATGATGCTGTC 600
OY      601 AGCGTTGATTTTGCATTCATTCATGAGAGCTGATGTTTCAGAGCTCTTCCCATTTGAAGCTA 660
Db      601 AGCGTTGATTTTGCATTCATTCATGAGAGCTGATGTTTCAGAGCTCTTCCCATTTGAAGCTA 660
OY      661 TAATTTATTTTGGACCAAGAGACCTTGAATATGATTCACATTTATATTCATTCAGCACTT 720
Db      661 TAATTTATTTTGGACCAAGAGACCTTGAATATGATTCACATTTATATTCATTCAGCACTT 720
OY      721 CTTCGTGGAAGAGCTTTGTGGAAGAAATGCTGATGATGATGATGATGATGATGATGATG 780
Db      721 CTTCGTGGAAGAGCTTTGTGGAAGAAATGCTGATGATGATGATGATGATGATGATGATG 780
OY      781 TTGGCACTTTGTTCAATTAACCCAAAAGAGATGCTTCTACTGATGATGATGATGATGATG 840
Db      781 TTGGCACTTTGTTCAATTAACCCAAAAGAGATGCTTCTACTGATGATGATGATGATGATG 840
OY      841 GCATCATTTATGGAAGAGCTTACCAAAATTAATGCTTAAATTTTCAATTTGCTACTCTTTT 900
Db      841 GCATCATTTATGGAAGAGCTTACCAAAATTAATGCTTAAATTTTCAATTTGCTACTCTTTT 900
OY      901 TTATTTATGCTTGAATGATGCTTCAATTAATGATGATGATGATGATGATGATGATGATG 960
Db      901 TTATTTATGCTTGAATGATGCTTCAATTAATGATGATGATGATGATGATGATGATGATG 960
OY      961 GAATGAAAGCAAAAGCTTAAATTTGTTTACAGACCAAGATGATTTTCAACAGCTTTTAA 1020
Db      961 GAATGAAAGCAAAAGCTTAAATTTGTTTACAGACCAAGATGATTTTCAACAGCTTTTAA 1020
OY      1021 ATCTAGCATTTATTCATTTTGTGCTTCAATCAAAAGCTTCAATTTTATTTTATTTAGTTG 1080
Db      1021 ATCTAGCATTTATTCATTTTGTGCTTCAATCAAAAGCTTCAATTTTATTTTATTTAGTTG 1080
OY      1081 AGAATACCTTTCTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1140
Db      1081 AGAATACCTTTCTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1140
OY      1141 TTGCTTTTCTTCTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1200
Db      1141 TTGCTTTTCTTCTTCAATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1200
OY      1201 AATTTGTAATGTTAAGATTTTATTTTATCTGTTAAATTAATTTATTTTCCACA 1257
Db      1201 AATTTGTAATGTTAAGATTTTATTTTATCTGTTAAATTAATTTATTTTCCACA 1257

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RESULT 3
US-10-006-041A-430
Sequence 430, Application us/10006041A
GENERAL INFORMATION:

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; APPLICANT: Baker, Kevin P.
; APPLICANT: Botsstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Geo, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James

```

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; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC8
; CURRENT APPLICATION NUMBER: US/10/006,041A
; CURRENT FILING DATE: 2001-12-06
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 430
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-006-041A-430

Query Match      100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2.7e-230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY      1  GGAGAGAGCGCGCGGTTGAAAGCGCATTTGATGACAGCTGCGCGGCTCGAGCGCG 60
Db      1  GGAGAGAGCGCGCGGTTGAAAGCGCATTTGATGACAGCTGCGCGGCTCGAGCGCG 60
OY      61  CGAGCGACAGCGCTGACACAGTTCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCT 120
Db      61  CGAGCGACAGCGCTGACACAGTTCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCT 120
OY      121  CCGGCGAGCGCGGAGCGATGCGACCCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
Db      121  CCGGCGAGCGCGGAGCGATGCGACCCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
OY      181  GCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
Db      181  GCCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 240
OY      241  AGGGAAGCAAAAGCGCGAGCTCCGCGACAGAGAGAGTGTGACCTGTAATGCAATGT 300
Db      241  AGGGAAGCAAAAGCGCGAGCTCCGCGACAGAGAGAGTGTGACCTGTAATGCAATGT 300
OY      301  GCTTACAAAGGCGCAGAGAGTGCCTGCTGCGAGACGCGAGCTTGGGCGCAATGTTATTC 360
Db      301  GCTTACAAAGGCGCAGAGAGTGCCTGCTGCGAGACGCGAGCTTGGGCGCAATGTTATTC 360
OY      361  CGGCTACACCTGGGATCCAGGTCGGGATGATTCAGAGAGAGAGAGAGAGAGAGAGAG 420
Db      361  CGGCTACACCTGGGATCCAGGTCGGGATGATTCAGAGAGAGAGAGAGAGAGAGAGAG 420
OY      421  GGGAAAGCTTTAGAGAGTCTGACACCACTTACAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Db      421  GGGAAAGCTTTAGAGAGTCTGACACCACTTACAGAGAGAGAGAGAGAGAGAGAGAGAG 480
OY      481  ATTATGCAATAGATCTTGGGAAAATTTGCGAGCTGATCATTTTCAAAAGATGCTTCAATA 540
Db      481  ATTATGCAATAGATCTTGGGAAAATTTGCGAGCTGATCATTTTCAAAAGATGCTTCAATA 540
OY      541  GTGCTCTAAGAGCTTTTGTTCAGTGGCTCACTTGGCTAAATATGAGAAATGATGCTGTC 600
Db      541  GTGCTCTAAGAGCTTTTGTTCAGTGGCTCACTTGGCTAAATATGAGAAATGATGCTGTC 600
OY      601  AGCGTTGATTTTGCATTCATTCATGAGAGCTGATGTTTCAGAGCTCTTCCCATTTGAAGCTA 660
Db      601  AGCGTTGATTTTGCATTCATTCATGAGAGCTGATGTTTCAGAGCTCTTCCCATTTGAAGCTA 660
OY      661  TAATTTATTTTGGACCAAGAGACCTTGAATATGATTCACATTTATATTCATTCAGCACTT 720
Db      661  TAATTTATTTTGGACCAAGAGACCTTGAATATGATTCACATTTATATTCATTCAGCACTT 720
OY      721  CTTCGTGGAAGAGCTTTGTGGAAGAAATGCTGATGATGATGATGATGATGATGATGATG 780
Db      721  CTTCGTGGAAGAGCTTTGTGGAAGAAATGCTGATGATGATGATGATGATGATGATGATG 780
OY      781  TTGGCACTTTGTTCAATTAACCCAAAAGAGATGCTTCTACTGATGATGATGATGATGATG 840
Db      781  TTGGCACTTTGTTCAATTAACCCAAAAGAGATGCTTCTACTGATGATGATGATGATGATG 840

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Oy	841	GCATCATTAATTGAAGAACTACCAAAATATAAGCTTTAATTTCATTCGCTACGCTTTT	900
Db	841	GCATCATTAATTGAAGAACTACCAAAATATAAGCTTTAATTTCATTCGCTACGCTTTT	900
Oy	901	TTATTAATGCCCTGGAAATGCTTCACGTTAAATGACATTTTAAATGAATTAATGATACATCT	960
Db	901	TTATTAATGCCCTGGAAATGCTTCACGTTAAATGACATTTTAAATGAATTAATGATACATCT	960
Oy	961	GAAAGAAAAGCAAAAGCTTAATATGTTTACAGACCAAAAGTGTGATTTCCACTGTTTTAA	1020
Db	961	GAAAGAAAAGCAAAAGCTTAATATGTTTACAGACCAAAAGTGTGATTTCCACTGTTTTAA	1020
Oy	1021	ATCTAGCATTAATCATTTTTGCTTCATCAATCAAAAGTGGTTCAATATTTTTTTAGTTGGTT	1080
Db	1021	ATCTAGCATTAATCATTTTTGCTTCATCAATCAAAAGTGGTTCAATATTTTTTTAGTTGGTT	1080
Oy	1081	AGAACTACTTTCTTCATATGTCACATTCCTCTCAACCTATAATTTGGAAATATGTTGTGTCCT	1140
Db	1081	AGAACTACTTTCTTCATATGTCACATTCCTCTCAACCTATAATTTGGAAATATGTTGTGTCCT	1140
Oy	1141	TTTGTTTTTTCTCTAGATATGCAATTTTAAATAAAATATAAAGCTACCAATCTTTGAC	1200
Db	1141	TTTGTTTTTTCTCTAGATATGCAATTTTAAATAAAATATAAAGCTACCAATCTTTGAC	1200
Oy	1201	AATTTGTAAATGTTAAGAAATTTTTTTTATATCTGTTAAATATAAAATATATTTCCACA	1257
Db	1201	AATTTGTAAATGTTAAGAAATTTTTTTTATATCTGTTAAATATAAAATATATTTCCACA	1257

RESULT 4

US-10-006-063A-430

Sequence 430, Application US/10006063A

GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan I.

APPLICANT: Ferrara, Napoleone

APPLICANT: Fong, Sherman

APPLICANT: Geo, Wei-Qiang

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Guiney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Pan, James

APPLICANT: Paonli, Nicholas F.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

FILE REFERENCE: P2830P1C3

CURRENT APPLICATION NUMBER: US/10/006,063A

Prior Application removed - 2002-03-15

NUMBER OF SEQ ID NOS: 477

SEQ ID NO 430

LENGTH: 1257

TYPE: DNA

ORGANISM: Homo Sapien

US-10-006-063A-430

	Query Match	Similarity	100.0%	Score 1257	DB 44	Length 1257
	Best Local	Similarity	100.0%	Pred. No. 2.7e-230		
	Matches 1257	Conservative	0	Mismatches	0	Indels
					0	Gaps
					0	
QY	1	GGAGAGAGCGCCGGGGTGAAGGCGCATATGATCAGCGCTCGGGCGGCGCTCGAGCGCGG	60			
Db	1	GGAAGAGAGCGCCGGGGTGAAGGCGCATATGATCAGCGCTCGGGCGGCGCTCGAGCGCGG	60			
QY	61	CGGAGCCAGAGCGCTGACCACTTCTCCCTCGGTCCTCCGCTCCAGCTCGGCGCTG	120			
Db	61	CGGAGCCAGAGCGCTGACCACTTCTCCCTCGGTCCTCCGCTCCAGCTCGGCGCTG	120			

QY	121	CCGGGACACGGGAGCCATGCGAGACCCAGGGGCCCGCCGCGCTCCGCCGAGGAGGGCTCCGGC	180
Db	121	CCGGGACACCGGAGACCATGCGAGACCCAGGGGCCCGCCGCGCTCCGCCGAGGAGGGCTCCGGC	180
QY	181	GCCTCTGCTCTCTCTGCTGCTGCGAGCTGCGCCGCGCGCTCGAGCGCTCTGAGATCCCA	240
Db	181	GCCTCTGCTCTCTCTGCTGCTGCGAGCTGCGCCGCGCGCTCGAGCGCTCTGAGATCCCA	240
QY	241	AGGGGAACAAAAGGCGGAGCTCCGGGACAGAGGAGGTGTGTGAGCTGTATTAATGGATGT	300
Db	241	AGGGGAACAAAAGGCGGAGCTCCGGGACAGAGGAGGTGTGTGAGCTGTATTAATGGAAAT	300
QY	301	GCTTACAAAGGGCCACAGCAGAGTGCCTGGTGCAGACGGGAGCCCTGGGGCCCAATGTTATTC	360
Db	301	GCTTACAAAGGGCCACAGCAGAGTGCCTGGTGCAGAGGGAGCCCTGGGGCCCAATGTATTC	360
QY	361	CGGGTACACCTGGGAGTCCCAAGGTGGGATGTATTCAAAGGAAAAGGGGAAATGTCTGA	420
Db	361	CGGGTACACCTGGGAGTCCCAAGGTGGGATGTATTCAAAGGAAAAGGGGAAATGTCTGA	420
QY	421	GGGAAAGGTTTGAAGAGTCTGGACACCACCACTCAACACAGTGTTCATGAGTTCATATGA	480
Db	421	GGGAAAGGTTTGAAGAGTCTGGACACCACCACTCAACACAGTGTTCATGAGTTCATATGA	480
QY	481	ATTATGCGATAGATCTTGGGAAAATGCGGAGGTGATTTACAAAGATGCGTTCAATA	540
Db	481	ATTATGCGATAGATCTTGGGAAAATGCGGAGGTGATTTACAAAGATGCGTTCAATA	540
QY	541	GTGCTCTAAGAGTTTGTTCAGTGGCTACATCGGCTTAAATGGAGAAATGCATATGCTC	600
Db	541	GTGCTCTAAGAGTTTGTTCAGTGGCTACATCGGCTTAAATGGAGAAATGCATATGCTC	600
QY	601	AGCGTTGATATTCACATTCATTAAGAGTGAATGTTGAGACCTCTTCCCATTTAAAGCTA	660
Db	601	AGCGTTGATATTCACATTCATTAAGAGTGAATGTTGAGACCTCTTCCCATTTAAAGCTA	660
QY	661	TAAATTTATTGGACCAAGAGCCCTGAAATGAATTCACAAATTAATTTATATGGCACTT	720
Db	661	TAAATTTATTGGACCAAGAGCCCTGAAATGAATTCACAAATTAATTTATATGGCACTT	720
QY	721	CTTCGTGTAAGAGACTTGTGAAGAAATGGTGTGATTTAGTGGATTTGCTATTCGTG	780
Db	721	CTTCGTGTAAGAGACTTGTGAAGAAATGGTGTGATTTAGTGGATTTGCTATTCGTG	780
QY	781	TTGGCAGCTTGTTCAGATTAACCCAAAAGAGATGCTTCTACGAGATGGAATTCAGTTCTC	840
Db	781	TTGGCAGCTTGTTCAGATTAACCCAAAAGAGATGCTTCTACGAGATGGAATTCAGTTCTC	840
QY	841	GCATCATTAATGAAGAACTACCAAAATTAAGCTTAAATTTTCATTTGCTCTACCTCTTTT	900
Db	841	GCATCATTAATGAAGAACTACCAAAATTAAGCTTAAATTTTCATTTGCTCTACCTCTTTT	900
QY	901	TTATTTATGCTTGGAAATGTTCACTTAATGACATTTTAAATTAAGTTATGTATACACT	960
Db	901	TTATTTATGCTTGGAAATGTTCACTTAATGACATTTTAAATTAAGTTATGTATACACT	960
QY	961	GAATGAAGAAAGAAAGCTTAATATGTTTAAACAACAAGTGAATTTCACTGTTTTTAA	1020
Db	961	GAATGAAGAAAGAAAGCTTAATATGTTTAAACAACAAGTGAATTTCACTGTTTTTAA	1020
QY	1021	ATTCAGACATTTTCATTTTGGCTCAATCAATCAAAAGTGTTCATTAATTTTATTTAGTGGTT	1080
Db	1021	ATTCAGACATTTTCATTTTGGCTCAATCAATCAAAAGTGTTCATTAATTTTATTTAGTGGTT	1080
QY	1081	AGAAATACCTTCTCATATGCTACACTTCCTCAACTATTAATTTGGAAATATGTTGTGGCT	1140
Db	1081	AGAAATACCTTCTCATATGCTACACTTCCTCAACTATTAATTTGGAAATATGTTGTGGCT	1140
QY	1141	TTTGTGTTTTTCTCTAGATAGCAATTTTAAAAAATTAATTAAGCTACCAATCTTTGTAC	1200
Db	1141	TTTGTGTTTTTCTCTAGATAGCAATTTTAAAAAATTAATTAAGCTACCAATCTTTGTAC	1200
QY	1201	AATTTGTAAATGTTAAGAAATTTTAAATATCTGTTAAATTAATTAATTTCAACA	1257

Db 1201 AATTGTAAATGTAAGAAATTTTATATATCTGTAATRAAAATTTATTCACAA 1257

RESULT 5
US-10-006-116A-430
Sequence 430, Application US/10006116A
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gutney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C15
CURRENT FILING DATE: 2001-12-16
PRIOR APPLICATION NUMBER: US/10/006,116A
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098723
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PRIOR APPLICATION NUMBER: 60/100584
PRIOR FILING DATE: 1998-09-16
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PRIOR APPLICATION NUMBER: 60/105002
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105104
PRIOR FILING DATE: 1998-10-21
PRIOR APPLICATION NUMBER: 60/105169
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105266
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105693
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105694
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105807
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/105881
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/105882
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/106023
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/106029

Query Match 100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2.7e-230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGAGCGCGGGGGAAGGCGCATGATGAGCGCTGGGGGCGCTGGAGAGCGCG 60
DB 1 GGAGAGAGCGCGCGGGGGAAGGCGCATGATGAGCGCTGGGGGCGCTGGAGAGCGCG 60
QY 61 CGGAGCAGAGCGCTGACCAAGTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 61 CGGAGCAGAGCGCTGACCAAGTTCCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120

QY 121 CCGGAGACCGGAGAGCATGCGACCCGAGGGCCCGCCCTCCCGAGCGCTCGCG 180
DB 121 CCGGAGACCGGAGAGCATGCGACCCGAGGGCCCGCCCTCCCGAGCGCTCGCG 180
QY 181 GCCT 240
DB 181 GCCT 240
QY 241 AGGAGAACCAAAAGGCGAGCTCCGCGAGAGGAGGTGTGACCTGTATATGGAATGT 300
DB 241 AGGAGAACCAAAAGGCGAGCTCCGCGAGAGGAGGTGTGACCTGTATATGGAATGT 300
QY 301 GCTTACAAAGGCGCAGAGAGTGCCTGTGAGCGGAGCCCTGGGCCCAATGTATTC 360
DB 301 GCTTACAAAGGCGCAGAGAGTGCCTGTGAGCGGAGCCCTGGGCCCAATGTATTC 360
QY 361 CGGCTACACCTGGGATGCCAGGTGGGATGATTCAGGAGAAAGGGGGAATGTCTGA 420
DB 361 CGGCTACACCTGGGATGCCAGGTGGGATGATTCAGGAGAAAGGGGGAATGTCTGA 420
QY 421 GGGAAAGCTTGGAGAGTCTGAGACCCCACTACAGCAGTGTTCATGAGTTCATGA 480
DB 421 GGGAAAGCTTGGAGAGTCTGAGACCCCACTACAGCAGTGTTCATGAGTTCATGA 480
QY 481 ATTATGCAATGATCTTGGGAAAATTCGCGAGCTTACATTTACAAAGATCGCTCAATA 540
DB 481 ATTATGCAATGATCTTGGGAAAATTCGCGAGTGTACATTTACAAAGATCGCTCAATA 540
QY 541 GTGCTCTAAGATTTGTTCAGTGTGCTCAGTTCGCTTAATGCAAGATGCAATGCTCTC 600
DB 541 GTGCTCTAAGATTTGTTCAGTGTGCTCAGTTCGCTTAATGCAAGATGCAATGCTCTC 600
QY 601 AGCCTGTGATTTCAATTCATGAGTGTGATGTCTGAGACCTTCCCATTTGAAGCTA 660
DB 601 AGCCTGTGATTTCAATTCATGAGTGTGATGTCTGAGACCTTCCCATTTGAAGCTA 660
QY 661 TAATTTATTTGGAGCAGAGAGCCCTGAAATGAAATTCACATTAATTTATCTGCACCT 720
DB 661 TAATTTATTTGGAGCAGAGAGCCCTGAAATGAAATTCACATTAATTTATCTGCACCT 720
QY 721 CTCTGTGGAAGAGCTTGTGAAGAAATGGTGGATTTAGTGTGATGTCTATCTGAG 780
DB 721 CTCTGTGGAAGAGCTTGTGTGAAGAAATGGTGGATTTAGTGTGATGTCTATCTGAG 780
QY 781 TTGSCACTTGTTCAGATTTCCCAAAAGAGATGCTTCTACTGATGATGATTCAGTTCTC 840
DB 781 TTGSCACTTGTTCAGATTTCCCAAAAGAGATGCTTCTACTGATGATGATTCAGTTCTC 840
QY 841 GCATCATTTATGGAAGACCTACCAAAATTAATGCTTTAATTTTCATTTGCTACCTCTTTT 900
DB 841 GCATCATTTATGGAAGACCTACCAAAATTAATGCTTTAATTTTCATTTGCTACCTCTTTT 900
QY 901 TTATTTATGCTTGAATGCTTCAATTAATGATTTAATTAATTTATGATGATCACT 960
DB 901 TTATTTATGCTTGAATGCTTCAATTAATGATTTAATTAATTTATGATGATCACT 960
QY 961 GAATGAAAAGCAAAAGCTAAATATGTTTACAGACCAAGTGTGATTTTCACACTGTTTAA 1020
DB 961 GAATGAAAAGCAAAAGCTAAATATGTTTACAGACCAAGTGTGATTTTCACACTGTTTAA 1020
QY 1021 ATCTAGCATTTATCTTTTGTCTCAATCAAAAGTGTTCATATTTTATGTTGTT 1080
DB 1021 ATCTAGCATTTATCTTTTGTCTCAATCAAAAGTGTTCATATTTTATGTTGTT 1080
QY 1081 AGAATACCTTCTTATGACATCTCTCAACCTATATTTGGAATTTGTTGGTCT 1140
DB 1081 AGAATACCTTCTTATGACATCTCTCAACCTATATTTGGAATTTGTTGGTCT 1140
QY 1141 TTTGTTTCTTCTTATGATGATTTTAAATAATTAATAAGCTACCAATCTTTGATC 1200
DB 1141 TTTGTTTCTTCTTATGATGATTTTAAATAATTAATAAGCTACCAATCTTTGATC 1200
QY 1201 AATTTGTAATGTTAAGATTTTATTTATCTGTTAAATAATAATTTATTCACACA 1257

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Db      1201 AATTGTAAATGTAAAGATTTTATATCTGTTAAATTAATAATTTATTCACACA 1257

RESULT 6
US-10-006-117A-430
; Sequence 430, Application US/10006117A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC13
; CURRENT APPLICATION NUMBER: US/10/006,117A
; PRIOR FILING DATE: 2002-03-19
; PRIOR APPLICATION removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 477
; SEQ ID NO 430
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-006-117A-430

Query Match      100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2.7e-230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGAGAGAGCGCGCGGTGAAGCGCATTTGATGACGCTGGGGCGGCGCTCGAGGCGGG 60
Db      1 GGAGAGAGCGCGCGGTGAAGCGCATTTGATGACGCTGGGGCGGCGCTCGAGGCGGG 60
QY      61 CGAGACGACGCGCTGACACAGTTCCTCTGCGGTCTCCCGCTCCGCTCCAGCTCCGCGT 120
Db      61 CGAGACGACGCGCTGACACAGTTCCTCTGCGGTCTCCCGCTCCGCTCCAGCTCCGCGT 120
QY      121 CCGGCGAGCGGAGCGCATGCGACCCCGAGGCGCGCGCTCCCGCGAGCGGCTCCGCG 180
Db      121 CCGGCGAGCGGAGCGCATGCGACCCCGAGGCGCGCGCTCCCGCGAGCGGCTCCGCG 180
QY      121 CCGGCGAGCGGAGCGCATGCGACCCCGAGGCGCGCGCTCCCGCGAGCGGCTCCGCG 180
Db      121 CCGGCGAGCGGAGCGCATGCGACCCCGAGGCGCGCGCTCCCGCGAGCGGCTCCGCG 180
QY      181 GCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
Db      181 GCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY      241 AGGGAAGCAAAAGCGCAGCTCCGCGCAGAGGAGTGTGACCTGTAAATGAATGT 300
Db      241 AGGGAAGCAAAAGCGCAGCTCCGCGCAGAGGAGTGTGACCTGTAAATGAATGT 300
QY      241 AGGGAAGCAAAAGCGCAGCTCCGCGCAGAGGAGTGTGACCTGTAAATGAATGT 300
Db      241 AGGGAAGCAAAAGCGCAGCTCCGCGCAGAGGAGTGTGACCTGTAAATGAATGT 300
QY      301 GCTTACAAAGGCGCAGAGAGTGTGCTGAGACGGAGCCCTGGGGCCAAATGTATTC 360
Db      301 GCTTACAAAGGCGCAGAGAGTGTGCTGAGACGGAGCCCTGGGGCCAAATGTATTC 360
QY      361 CGGTTACACCTGGGATCCAGGTGGGATGATGATCAAAAGAAAGGAGGGAATGTCTGA 420
Db      361 CGGTTACACCTGGGATCCAGGTGGGATGATGATCAAAAGAAAGGAGGGAATGTCTGA 420
QY      421 GGGAAAGCTTTGAGAGTCTCTGACACCACTACAAAGAGTTCATGAGTTCATTTGA 480
Db      421 GGGAAAGCTTTGAGAGTCTCTGACACCACTACAAAGAGTTCATGAGTTCATTTGA 480
QY      481 AATTATGCAATAGTCTTGGGAAATTCGAGAGTGTACATTTACAAAGATGCGTTCAATA 540

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Db      481 AATTATGCAATAGTCTTGGGAAATTCGAGAGTGTACATTTACAAAGATGCGTTCAATA 540
QY      541 GTGCTTAAGAGTTTGTTCAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
Db      541 GTGCTTAAGAGTTTGTTCAGTGCCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 600
QY      601 AGCGTGTGATTTACATTCATGAGAGTGAATGTTCAGAGCTCTCCCATTTGAAGCTA 660
Db      601 AGCGTGTGATTTACATTCATGAGAGTGAATGTTCAGAGCTCTCCCATTTGAAGCTA 660
QY      661 TAAATTTATTTGACCAAGAGAGCGCTGAATGATTCACAAATTAATTCATGCGACTT 720
Db      661 TAAATTTATTTGACCAAGAGAGCGCTGAATGATTCACAAATTAATTCATGCGACTT 720
QY      721 CTTCTGTGAGAGACTTTGTGAAGGAATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
Db      721 CTTCTGTGAGAGACTTTGTGAAGGAATGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 780
QY      781 TTGGCACTTGTTCAGATTAACCCAAAGAGATGCTCTACTGATGGAATTCAGTTCTC 840
Db      781 TTGGCACTTGTTCAGATTAACCCAAAGAGATGCTCTACTGATGGAATTCAGTTCTC 840
QY      841 GCATCATTTATGGAAGACTACCAAAATTAATGCTTTAATTTTCATTTGCTTACCTCTTT 900
Db      841 GCATCATTTATGGAAGACTACCAAAATTAATGCTTTAATTTTCATTTGCTTACCTCTTT 900
QY      901 TTAATTTGCTTGAAGTGTGCTCAATTAATGATTTAAATGATTTAAATGATTTAAATG 960
Db      901 TTAATTTGCTTGAAGTGTGCTCAATTAATGATTTAAATGATTTAAATGATTTAAATG 960
QY      961 GAATGAAGCAAGCAAGCTAATATATTTTACAGACCAAGTGTGATTCACAGCTTTTAA 1020
Db      961 GAATGAAGCAAGCAAGCTAATATATTTTACAGACCAAGTGTGATTCACAGCTTTTAA 1020
QY      1021 ATCTACATTTATTCATTTTGTCTCAATCAAAAGTGTTCATATTTTAAATTTAGTTG 1080
Db      1021 ATCTACATTTATTCATTTTGTCTCAATCAAAAGTGTTCATATTTTAAATTTAGTTG 1080
QY      1081 AGAATATCTTCTTCATAGTACATTCCTCAACCTTAATTTGGAATTTGTTGCTGCT 1140
Db      1081 AGAATATCTTCTTCATAGTACATTCCTCAACCTTAATTTGGAATTTGTTGCTGCT 1140
QY      1141 TTTGTTTTTCTTCTTATGATAGCATTTTAAAAAATATTAAGTACCAATCTTTGTAC 1200
Db      1141 TTTGTTTTTCTTCTTATGATAGCATTTTAAAAAATATTAAGTACCAATCTTTGTAC 1200
QY      1201 AATTGTAAATGTAAAGATTTTAAATATCTGTTAAATTAATAATTAATTTCCACACA 1257
Db      1201 AATTGTAAATGTAAAGATTTTAAATATCTGTTAAATTAATAATTAATTTCCACACA 1257

RESULT 7
US-10-006-130A-430
; Sequence 430, Application US/10006130A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC17

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;; CURRENT APPLICATION NUMBER: US/10/006,130A
;; CURRENT FILING DATE: 2002-03-19
;; Prior Application removed - See File Wrapper or Palm
;; NUMBER OF SEQ ID NOS: 477
;; SEQ ID NO 430
;; LENGTH: 1257
;; TYPE: DNA
;; ORGANISM: Homo Sapien
US-10-006-130A-430

Query Match      100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,7e-230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGAGCGCGCGGGTGAAGGCGCATTTGATGAGCGCTCGGGCGCTCGAGCGCG 60
DB 1 GGAGAGAGCGCGCGGGTGAAGGCGCATTTGATGAGCGCTCGGGCGCTCGAGCGCG 60
QY 61 CGGAGCCAGAGCGCTGACACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 61 CGGAGCCAGAGCGCTGACACGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
QY 121 CCCGAGACCGCGGAGCCATGCGACCCCGCGCGCGCTCTCTCTCTCTCTCTCT 180
DB 121 CCCGAGACCGCGGAGCCATGCGACCCCGCGCGCGCTCTCTCTCTCTCTCTCT 180
QY 181 GCGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
DB 181 GCGCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
QY 241 AGGGAGAGCAAAAGCGCGAGCTCGCGAGAGGAGTGTGAGCTGTATATGGAAT 300
DB 241 AGGGAGAGCAAAAGCGCGAGCTCGCGAGAGGAGTGTGAGCTGTATATGGAAT 300
QY 301 GCTTACAAAGGCGCAGAGAGTGGCTGTGAGAGCGGAGCGCGGCGCATGTATTC 360
DB 301 GCTTACAAAGGCGCAGAGAGTGGCTGTGAGAGCGGAGCGCGGCGCATGTATTC 360
QY 361 CGGCTACACCTGGAGTCCAGAGTGGAGTGTCAAAAGAGAAAGGGGGAATGTCTGA 420
DB 361 CGGCTACACCTGGAGTCCAGAGTGGAGTGTCAAAAGAGAAAGGGGGAATGTCTGA 420
QY 421 GGGAAAGCTTGAAGAGCTGCGACACCACTCAAGCATGTTCATGAGAGTTCATGA 480
DB 421 GGGAAAGCTTGAAGAGCTGCGACACCACTCAAGCATGTTCATGAGAGTTCATGA 480
QY 481 ATTATGCAATGATCTTGGAAATTTGGAGTGTATCTTACAAAGAGTGTCAATA 540
DB 481 ATTATGCAATGATCTTGGAAATTTGGAGTGTATCTTACAAAGAGTGTCAATA 540
QY 541 GTGCTTGAAGAGTGTGTCAGTGGCTCTTGGCTTAAATGCAAAATGCATGCTGTC 600
DB 541 GTGCTTGAAGAGTGTGTCAGTGGCTCTTGGCTTAAATGCAAAATGCATGCTGTC 600
QY 601 AGGCTGTGATTTCAATTCATGAGAGTGTGATGAGAGCTCTCTCTCTCTCTCT 660
DB 601 AGGCTGTGATTTCAATTCATGAGAGTGTGATGAGAGCTCTCTCTCTCTCTCT 660
QY 661 TAATTTATTTGAGCAAGAGCCCTGAATGAATCAATTAATTAATTAATGCACTT 720
DB 661 TAATTTATTTGAGCAAGAGCCCTGAATGAATCAATTAATTAATTAATGCACTT 720
QY 721 CTCTGTGGAAGAGCTTGTGAAGAAATGTGCTGTGATTAAGTGAATGTTCTAT 780
DB 721 CTCTGTGGAAGAGCTTGTGAAGAAATGTGCTGTGATTAAGTGAATGTTCTAT 780
QY 781 TTGGCACTTGTTCAGATTACCAAAAGAGAGTGTCTTACAGATGGAATCAATTTCTC 840
DB 781 TTGGCACTTGTTCAGATTACCAAAAGAGAGTGTCTTACAGATGGAATCAATTTCTC 840
QY 841 GCATCATTTATGAAGAACTACCAAAATTAATGCTTTAATTTTCAATTTGCTACTT 900
DB 841 GCATCATTTATGAAGAACTACCAAAATTAATGCTTTAATTTTCAATTTGCTACTT 900
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QY 901 TTATATGCTTGGAGAGTTCACATTAATGACATTTAAATAGTTATGATACATCT 960
DB 901 TTATATGCTTGGAGAGTTCACATTAATGACATTTAAATAGTTATGATACATCT 960
QY 961 GATGAAAGCAAGCTTAATATGTTTACAGACCAAGCTGATTTCACTGTTTAA 1020
DB 961 GATGAAAGCAAGCTTAATATGTTTACAGACCAAGCTGATTTCACTGTTTAA 1020
QY 1021 ATCTAGCATTTATATTTGCTTCATCAATCAAAAGGTTCAATATTTTATGTTGTT 1080
DB 1021 ATCTAGCATTTATATTTGCTTCATCAATCAAAAGGTTCAATATTTTATGTTGTT 1080
QY 1081 AGAATACCTTCTTCATACATCTCTCAACCTATATATTTGGAATTTGTGCTCT 1140
DB 1081 AGAATACCTTCTTCATACATCTCTCAACCTATATATTTGGAATTTGTGCTCT 1140
QY 1141 TTGTGTTTCTCTTATATGATTTTAAATATTAAGCTACCAATCTTTGTAC 1200
DB 1141 TTGTGTTTCTCTTATATGATTTTAAATATTAAGCTACCAATCTTTGTAC 1200
QY 1201 AATTTGTAATGTTAAGATTTTATATCTGTTAAATTAATTTTCCAAACA 1257
DB 1201 AATTTGTAATGTTAAGATTTTATATCTGTTAAATTAATTTTCCAAACA 1257

RESULT 8
US-10-006-172A-430
Sequence 430, Application US/10006172A
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferraro, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoli, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C11
CURRENT APPLICATION NUMBER: US/10/006,172A
CURRENT FILING DATE: 2002-03-19
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098723
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098749
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098750
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098803
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/098821
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/098843
PRIOR FILING DATE: 1998-09-02
PRIOR APPLICATION NUMBER: 60/099336
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099596
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099598
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099602
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099642
PRIOR FILING DATE: 1998-09-09
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; PRIOR APPLICATION NUMBER: 60/105807
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/105881
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/105882
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/106023
; PRIOR FILING DATE: 1998-10-28
; PRIOR APPLICATION NUMBER: 60/106029

Query Match      100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,7e-230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGAGCGCGCGGGTGAAGGCGCATTTGATGACGCTCGCGCGCTCGAGCGCGG 60
DB 1 GGAGAGAGCGCGCGGGTGAAGGCGCATTTGATGACGCTCGCGCGCTCGAGCGCGG 60
QY 61 CGAGAGCGAGCGCTGACCGAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 61 CGAGAGCGAGCGCTGACCGAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
QY 121 CCGGCGAGCGCGGAGCCATGCGACCCGAGGCGCGCGCGCTCTCTCTCTCTCTCT 180
DB 121 CCGGCGAGCGCGGAGCCATGCGACCCGAGGCGCGCGCGCTCTCTCTCTCTCTCT 180
QY 181 GCGCTCGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
DB 181 GCGCTCGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
QY 241 AGGGGAGGCAAAAGCGCGAGCTCGCGAGAGGAGGTGTGTGTGTGTGTGTGTGT 300
DB 241 AGGGGAGGCAAAAGCGCGAGCTCGCGAGAGGAGGTGTGTGTGTGTGTGTGTGT 300
QY 301 GCTTACAGAGGCGCGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
DB 301 GCTTACAGAGGCGCGAGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 360
QY 361 CGGCTACAGCTGGGATCCGAGGTGGGATGATTCAGAGAGAGAGAGAGAGAGAG 420
DB 361 CGGCTACAGCTGGGATCCGAGGTGGGATGATTCAGAGAGAGAGAGAGAGAGAG 420
QY 421 GGGAGAGCTTGAAGAGTCTGAGACCCAGCTCAAGCAGTGTGTGTGTGTGTGTGT 480
DB 421 GGGAGAGCTTGAAGAGTCTGAGACCCAGCTCAAGCAGTGTGTGTGTGTGTGTGT 480
QY 481 ATATGCGATAGATCTTGGGAGAGTGGGAGGTGTGTGTGTGTGTGTGTGTGTGT 540
DB 481 ATATGCGATAGATCTTGGGAGAGTGGGAGGTGTGTGTGTGTGTGTGTGTGTGT 540
QY 541 GTGCTCTAGAGCTTTTGTCTAGTGGCTGCTTGGCTTAAATGCAAGATGCTGTG 600
DB 541 GTGCTCTAGAGCTTTTGTCTAGTGGCTGCTTGGCTTAAATGCAAGATGCTGTG 600
QY 601 AGCGTGGTATTTACATTCATGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 660
DB 601 AGCGTGGTATTTACATTCATGAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 660
QY 661 TAAATTTATTTGAGCAAGAGAGCCCTGAAATGATTCATTCATTCATTCATTCAT 720
DB 661 TAAATTTATTTGAGCAAGAGAGCCCTGAAATGATTCATTCATTCATTCATTCAT 720
QY 721 CTCTCTGAGAGAGCTTTGTGAGAGAAATGTGTGTGTGTGTGTGTGTGTGTGT 780
DB 721 CTCTCTGAGAGAGCTTTGTGAGAGAAATGTGTGTGTGTGTGTGTGTGTGTGT 780
QY 781 TTGGCACTTTGTCAGATTAACCAAGAGATGCTTCTACAGATGAGATTCAGTTTCT 840
DB 781 TTGGCACTTTGTCAGATTAACCAAGAGATGCTTCTACAGATGAGATTCAGTTTCT 840
QY 841 GCATCATTTATTTGAGAGAGATTAACCAAGATGCTTCTACAGATGAGATTCAGTT 900
DB 841 GCATCATTTATTTGAGAGAGATTAACCAAGATGCTTCTACAGATGAGATTCAGTT 900

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QY 901 TTATTTAGCTTGGATGTTCACTTAATGACATTTTAAATAGTTATGATACATCT 960
DB 901 TTATTTAGCTTGGATGTTCACTTAATGACATTTTAAATAGTTATGATACATCT 960
QY 961 GAATGAAAGCAAGCTTAATATTTTACAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
DB 961 GAATGAAAGCAAGCTTAATATTTTACAGAGAGAGAGAGAGAGAGAGAGAGAG 1020
QY 1021 ATCTAGCATTTATTTGCTTCAATCAAAAGAGTGTCAATTTTATTTTATTTGTT 1080
DB 1021 ATCTAGCATTTATTTGCTTCAATCAAAAGAGTGTCAATTTTATTTTATTTGTT 1080
QY 1081 AGAATCTTTCTTCAATGTCATCTCTCAACCTTAATTTGGAATTTGTGTGTCT 1140
DB 1081 AGAATCTTTCTTCAATGTCATCTCTCAACCTTAATTTGGAATTTGTGTGTCT 1140
QY 1141 TTGTTTCTCTCTTATGATTTTATTTTAAATATTAAGCTTCAATCTTTGTAC 1200
DB 1141 TTGTTTCTCTCTTATGATTTTATTTTAAATATTAAGCTTCAATCTTTGTAC 1200
QY 1201 AATTTGTAATGTTAAGATTTTATTTATATCTGTAAATTTAAATTTTCAACA 1257
DB 1201 AATTTGTAATGTTAAGATTTTATTTATATCTGTAAATTTAAATTTTCAACA 1257

RESULT 9
US-10-006-485A-430
; Sequence 430, Application US/10006485A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C9
; CURRENT FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098750
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098803
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098821
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098843
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/099536
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099596
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099598
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099602
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099642
; PRIOR FILING DATE: 1998-09-09

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1	PRIOR APPLICATION NUMBER: 60/099741
2	PRIOR FILING DATE: 1998-09-10
3	PRIOR APPLICATION NUMBER: 60/099754
4	PRIOR FILING DATE: 1998-09-10
5	PRIOR APPLICATION NUMBER: 60/099763
6	PRIOR FILING DATE: 1998-09-10
7	PRIOR APPLICATION NUMBER: 60/099792
8	PRIOR FILING DATE: 1998-09-10
9	PRIOR APPLICATION NUMBER: 60/099808
10	PRIOR FILING DATE: 1998-09-10
11	PRIOR APPLICATION NUMBER: 60/099812
12	PRIOR FILING DATE: 1998-09-10
13	PRIOR APPLICATION NUMBER: 60/100385
14	PRIOR FILING DATE: 1998-09-15
15	PRIOR APPLICATION NUMBER: 60/100388
16	PRIOR FILING DATE: 1998-09-15
17	PRIOR APPLICATION NUMBER: 60/100390
18	PRIOR FILING DATE: 1998-09-15
19	PRIOR APPLICATION NUMBER: 60/100584
20	PRIOR FILING DATE: 1998-09-16
21	PRIOR APPLICATION NUMBER: 60/100627
22	PRIOR FILING DATE: 1998-09-16
23	PRIOR APPLICATION NUMBER: 60/100661
24	PRIOR FILING DATE: 1998-09-16
25	PRIOR APPLICATION NUMBER: 60/100662
26	PRIOR FILING DATE: 1998-09-16
27	PRIOR APPLICATION NUMBER: 60/100664
28	PRIOR FILING DATE: 1998-09-16
29	PRIOR APPLICATION NUMBER: 60/100683
30	PRIOR FILING DATE: 1998-09-17
31	PRIOR APPLICATION NUMBER: 60/100684
32	PRIOR FILING DATE: 1998-09-17
33	PRIOR APPLICATION NUMBER: 60/100710
34	PRIOR FILING DATE: 1998-09-17
35	PRIOR APPLICATION NUMBER: 60/100711
36	PRIOR FILING DATE: 1998-09-17
37	PRIOR APPLICATION NUMBER: 60/100848
38	PRIOR FILING DATE: 1998-09-18
39	PRIOR APPLICATION NUMBER: 60/100849
40	PRIOR FILING DATE: 1998-09-18
41	PRIOR APPLICATION NUMBER: 60/100919
42	PRIOR FILING DATE: 1998-09-17
43	PRIOR APPLICATION NUMBER: 60/100930
44	PRIOR FILING DATE: 1998-09-17
45	PRIOR APPLICATION NUMBER: 60/101014
46	PRIOR FILING DATE: 1998-09-18
47	PRIOR APPLICATION NUMBER: 60/101068
48	PRIOR FILING DATE: 1998-09-18
49	PRIOR APPLICATION NUMBER: 60/101071
50	PRIOR FILING DATE: 1998-09-18
51	PRIOR APPLICATION NUMBER: 60/101279
52	PRIOR FILING DATE: 1998-09-22
53	PRIOR APPLICATION NUMBER: 60/101471
54	PRIOR FILING DATE: 1998-09-23
55	PRIOR APPLICATION NUMBER: 60/101472
56	PRIOR FILING DATE: 1998-09-23
57	PRIOR APPLICATION NUMBER: 60/101474
58	PRIOR FILING DATE: 1998-09-23
59	PRIOR APPLICATION NUMBER: 60/101475
60	PRIOR FILING DATE: 1998-09-23
61	PRIOR APPLICATION NUMBER: 60/101476
62	PRIOR FILING DATE: 1998-09-23
63	PRIOR APPLICATION NUMBER: 60/101477
64	PRIOR FILING DATE: 1998-09-23
65	PRIOR APPLICATION NUMBER: 60/101479
66	PRIOR FILING DATE: 1998-09-23
67	PRIOR APPLICATION NUMBER: 60/101738
68	PRIOR FILING DATE: 1998-09-24
69	PRIOR APPLICATION NUMBER: 60/101741

PRIOR FILING DATE:	1998-09-24
PRIOR APPLICATION NUMBER:	60/101743
PRIOR FILING DATE:	1998-09-24
PRIOR APPLICATION NUMBER:	60/101915
PRIOR FILING DATE:	1998-09-24
PRIOR APPLICATION NUMBER:	60/101916
PRIOR FILING DATE:	1998-09-24
PRIOR APPLICATION NUMBER:	60/1020207
PRIOR FILING DATE:	1998-09-29
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PRIOR APPLICATION NUMBER:	60/102330
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PRIOR APPLICATION NUMBER:	60/102484
PRIOR FILING DATE:	1998-09-30
PRIOR APPLICATION NUMBER:	60/102487
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PRIOR APPLICATION NUMBER:	60/102570
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PRIOR APPLICATION NUMBER:	60/102571
PRIOR FILING DATE:	1998-09-30
PRIOR APPLICATION NUMBER:	60/102684
PRIOR FILING DATE:	1998-10-01
PRIOR APPLICATION NUMBER:	60/102687
PRIOR FILING DATE:	1998-10-01
PRIOR APPLICATION NUMBER:	60/102965
PRIOR FILING DATE:	1998-10-02
PRIOR APPLICATION NUMBER:	60/103258
PRIOR FILING DATE:	1998-10-06
PRIOR APPLICATION NUMBER:	60/103314
PRIOR FILING DATE:	1998-10-07
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PRIOR APPLICATION NUMBER:	60/103366
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PRIOR APPLICATION NUMBER:	60/103401
PRIOR FILING DATE:	1998-10-07
PRIOR APPLICATION NUMBER:	60/103449
PRIOR FILING DATE:	1998-10-06
PRIOR APPLICATION NUMBER:	60/103633
PRIOR FILING DATE:	1998-10-08
PRIOR APPLICATION NUMBER:	60/103678
PRIOR FILING DATE:	1998-10-08
PRIOR APPLICATION NUMBER:	60/103679
PRIOR FILING DATE:	1998-10-08
PRIOR APPLICATION NUMBER:	60/103711
PRIOR FILING DATE:	1998-10-08
PRIOR APPLICATION NUMBER:	60/104257
PRIOR FILING DATE:	1998-10-14
PRIOR APPLICATION NUMBER:	60/104987
PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105000
PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105002
PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105104
PRIOR FILING DATE:	1998-10-21
PRIOR APPLICATION NUMBER:	60/105169
PRIOR FILING DATE:	1998-10-22
PRIOR APPLICATION NUMBER:	60/105266
PRIOR FILING DATE:	1998-10-22
PRIOR APPLICATION NUMBER:	60/105693
PRIOR FILING DATE:	1998-10-26
PRIOR APPLICATION NUMBER:	60/105694
PRIOR FILING DATE:	1998-10-26

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; PRIOR APPLICATION NUMBER: 60/105807
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/105881
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/105882
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/106023
; PRIOR FILING DATE: 1998-10-28
; PRIOR APPLICATION NUMBER: 60/106029
;
Query Match      100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,7e+230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAAGAGCGCGCGGGTGAAGGCGCATGATGACGCTCGCGGCGCTGAGACCGCGG 60
DB 1 GGAAGAGCGCGCGGGTGAAGGCGCATGATGACGCTCGCGGCGCTGAGACCGCGG 60
QY 61 CGGAGCGCGAGCGCTGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
DB 61 CGGAGCGCGAGCGCTGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 120
QY 121 CCCGCGACCGCGGAGCGCATGCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
DB 121 CCCGCGACCGCGGAGCGCATGCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
QY 121 CCCGCGACCGCGGAGCGCATGCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
DB 121 CCCGCGACCGCGGAGCGCATGCGACCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
QY 181 GCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
DB 181 GCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 240
QY 241 AGGGAGAGCGCGCGAGCTCGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
DB 241 AGGGAGAGCGCGCGAGCTCGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY 301 GCTTACAGAGCGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
DB 301 GCTTACAGAGCGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY 301 GCTTACAGAGCGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
DB 301 GCTTACAGAGCGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY 361 CGGCTACAGCGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 420
DB 361 CGGCTACAGCGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 420
QY 421 GGGAGAGGCTTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
DB 421 GGGAGAGGCTTGAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 480
QY 481 ATTATGCGATGATCTTGGGAAATTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540
DB 481 ATTATGCGATGATCTTGGGAAATTTGGGAGGAGGAGGAGGAGGAGGAGGAGGAG 540
QY 541 GTGCTCTAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 600
DB 541 GTGCTCTAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 600
QY 601 AGGCTGAGTATTCATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
DB 601 AGGCTGAGTATTCATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 660
QY 661 TAAATTTATTTGAGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
DB 661 TAAATTTATTTGAGCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 720
QY 721 CTCTCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
DB 721 CTCTCTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 780
QY 781 TTGGCACTTGTTCAGATTTACCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
DB 781 TTGGCACTTGTTCAGATTTACCAAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 840
QY 841 GCATCATTTATTTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
DB 841 GCATCATTTATTTGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900

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QY 901 TTATATGCGCTTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
DB 901 TTATATGCGCTTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 960
QY 961 GATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
DB 961 GATGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1020
QY 1021 ATCTAGCATTTATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080
DB 1021 ATCTAGCATTTATTTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1080
QY 1081 AGAATACCTTTCTCATGATTTATTTATTTATTTATTTATTTATTTATTTATTT 1140
DB 1081 AGAATACCTTTCTCATGATTTATTTATTTATTTATTTATTTATTTATTTATTT 1140
QY 1141 TTGCTTTTCTCTTATGATTTATTTATTTATTTATTTATTTATTTATTTATTT 1200
DB 1141 TTGCTTTTCTCTTATGATTTATTTATTTATTTATTTATTTATTTATTTATTT 1200
QY 1201 AATTTGTAATGTTAAGATTTTATTTATTTATTTATTTATTTATTTATTTATTT 1257
DB 1201 AATTTGTAATGTTAAGATTTTATTTATTTATTTATTTATTTATTTATTTATTT 1257

RESULT 10
US-10-006-746A-430
Sequence 430, Application US/10006746A
GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1CS
; CURRENT APPLICATION NUMBER: US/10/006,746A
; CURRENT FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098750
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098803
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098821
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/098843
; PRIOR FILING DATE: 1998-09-02
; PRIOR APPLICATION NUMBER: 60/099536
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099596
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099598
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099602
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099642
; PRIOR FILING DATE: 1998-09-09

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1 PRIOR APPLICATION NUMBER: 60/099741
2 PRIOR FILING DATE: 1998-09-10
3 PRIOR APPLICATION NUMBER: 60/099754
4 PRIOR FILING DATE: 1998-09-10
5 PRIOR APPLICATION NUMBER: 60/099763
6 PRIOR FILING DATE: 1998-09-10
7 PRIOR APPLICATION NUMBER: 60/099792
8 PRIOR FILING DATE: 1998-09-10
9 PRIOR APPLICATION NUMBER: 60/099808
10 PRIOR FILING DATE: 1998-09-10
11 PRIOR APPLICATION NUMBER: 60/099812
12 PRIOR FILING DATE: 1998-09-10
13 PRIOR APPLICATION NUMBER: 60/099815
14 PRIOR FILING DATE: 1998-09-10
15 PRIOR APPLICATION NUMBER: 60/099816
16 PRIOR FILING DATE: 1998-09-10
17 PRIOR APPLICATION NUMBER: 60/100385
18 PRIOR FILING DATE: 1998-09-15
19 PRIOR APPLICATION NUMBER: 60/100388
20 PRIOR FILING DATE: 1998-09-15
21 PRIOR APPLICATION NUMBER: 60/100390
22 PRIOR FILING DATE: 1998-09-15
23 PRIOR APPLICATION NUMBER: 60/100584
24 PRIOR FILING DATE: 1998-09-16
25 PRIOR APPLICATION NUMBER: 60/100627
26 PRIOR FILING DATE: 1998-09-16
27 PRIOR APPLICATION NUMBER: 60/100661
28 PRIOR FILING DATE: 1998-09-16
29 PRIOR APPLICATION NUMBER: 60/100662
30 PRIOR FILING DATE: 1998-09-16
31 PRIOR APPLICATION NUMBER: 60/100664
32 PRIOR FILING DATE: 1998-09-16
33 PRIOR APPLICATION NUMBER: 60/100683
34 PRIOR FILING DATE: 1998-09-17
35 PRIOR APPLICATION NUMBER: 60/100684
36 PRIOR FILING DATE: 1998-09-17
37 PRIOR APPLICATION NUMBER: 60/100710
38 PRIOR FILING DATE: 1998-09-17
39 PRIOR APPLICATION NUMBER: 60/100711
40 PRIOR FILING DATE: 1998-09-17
41 PRIOR APPLICATION NUMBER: 60/100848
42 PRIOR FILING DATE: 1998-09-18
43 PRIOR APPLICATION NUMBER: 60/100849
44 PRIOR FILING DATE: 1998-09-18
45 PRIOR APPLICATION NUMBER: 60/100919
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47 PRIOR APPLICATION NUMBER: 60/100930
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49 PRIOR APPLICATION NUMBER: 60/101014
50 PRIOR FILING DATE: 1998-09-18
51 PRIOR APPLICATION NUMBER: 60/101068
52 PRIOR FILING DATE: 1998-09-18
53 PRIOR APPLICATION NUMBER: 60/101071
54 PRIOR FILING DATE: 1998-09-18
55 PRIOR APPLICATION NUMBER: 60/101279
56 PRIOR FILING DATE: 1998-09-22
57 PRIOR APPLICATION NUMBER: 60/101471
58 PRIOR FILING DATE: 1998-09-23
59 PRIOR APPLICATION NUMBER: 60/101472
60 PRIOR FILING DATE: 1998-09-23
61 PRIOR APPLICATION NUMBER: 60/101474
62 PRIOR FILING DATE: 1998-09-23
63 PRIOR APPLICATION NUMBER: 60/101475
64 PRIOR FILING DATE: 1998-09-23
65 PRIOR APPLICATION NUMBER: 60/101476
66 PRIOR FILING DATE: 1998-09-23
67 PRIOR APPLICATION NUMBER: 60/101477
68 PRIOR FILING DATE: 1998-09-23
69 PRIOR APPLICATION NUMBER: 60/101479
70 PRIOR FILING DATE: 1998-09-23
71 PRIOR APPLICATION NUMBER: 60/101738
72 PRIOR FILING DATE: 1998-09-24
73 PRIOR APPLICATION NUMBER: 60/101741

1 PRIOR FILING DATE: 1998-09-24
2 PRIOR APPLICATION NUMBER: 60/101743
3 PRIOR FILING DATE: 1998-09-24
4 PRIOR APPLICATION NUMBER: 60/101915
5 PRIOR FILING DATE: 1998-09-24
6 PRIOR APPLICATION NUMBER: 60/101916
7 PRIOR FILING DATE: 1998-09-24
8 PRIOR APPLICATION NUMBER: 60/102207
9 PRIOR FILING DATE: 1998-09-29
10 PRIOR APPLICATION NUMBER: 60/102240
11 PRIOR FILING DATE: 1998-09-29
12 PRIOR APPLICATION NUMBER: 60/102307
13 PRIOR FILING DATE: 1998-09-29
14 PRIOR APPLICATION NUMBER: 60/102330
15 PRIOR FILING DATE: 1998-09-29
16 PRIOR APPLICATION NUMBER: 60/102331
17 PRIOR FILING DATE: 1998-09-29
18 PRIOR APPLICATION NUMBER: 60/102484
19 PRIOR FILING DATE: 1998-09-30
20 PRIOR APPLICATION NUMBER: 60/102487
21 PRIOR FILING DATE: 1998-09-30
22 PRIOR APPLICATION NUMBER: 60/102570
23 PRIOR FILING DATE: 1998-09-30
24 PRIOR APPLICATION NUMBER: 60/102571
25 PRIOR FILING DATE: 1998-09-30
26 PRIOR APPLICATION NUMBER: 60/102684
27 PRIOR FILING DATE: 1998-10-01
28 PRIOR APPLICATION NUMBER: 60/102687
29 PRIOR FILING DATE: 1998-10-01
30 PRIOR APPLICATION NUMBER: 60/102965
31 PRIOR FILING DATE: 1998-10-02
32 PRIOR APPLICATION NUMBER: 60/103258
33 PRIOR FILING DATE: 1998-10-06
34 PRIOR APPLICATION NUMBER: 60/103314
35 PRIOR FILING DATE: 1998-10-07
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46 PRIOR APPLICATION NUMBER: 60/103449
47 PRIOR FILING DATE: 1998-10-06
48 PRIOR APPLICATION NUMBER: 60/103633
49 PRIOR FILING DATE: 1998-10-08
50 PRIOR APPLICATION NUMBER: 60/103678
51 PRIOR FILING DATE: 1998-10-08
52 PRIOR APPLICATION NUMBER: 60/103679
53 PRIOR FILING DATE: 1998-10-08
54 PRIOR APPLICATION NUMBER: 60/103711
55 PRIOR FILING DATE: 1998-10-08
56 PRIOR APPLICATION NUMBER: 60/104257
57 PRIOR FILING DATE: 1998-10-14
58 PRIOR APPLICATION NUMBER: 60/104987
59 PRIOR FILING DATE: 1998-10-20
60 PRIOR APPLICATION NUMBER: 60/105000
61 PRIOR FILING DATE: 1998-10-20
62 PRIOR APPLICATION NUMBER: 60/105002
63 PRIOR FILING DATE: 1998-10-20
64 PRIOR APPLICATION NUMBER: 60/105104
65 PRIOR FILING DATE: 1998-10-21
66 PRIOR APPLICATION NUMBER: 60/105169
67 PRIOR FILING DATE: 1998-10-22
68 PRIOR APPLICATION NUMBER: 60/105266
69 PRIOR FILING DATE: 1998-10-22
70 PRIOR APPLICATION NUMBER: 60/105693
71 PRIOR FILING DATE: 1998-10-26
72 PRIOR APPLICATION NUMBER: 60/105694
73 PRIOR FILING DATE: 1998-10-26

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; PRIOR APPLICATION NUMBER: 60/105807
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/105881
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/105882
; PRIOR FILING DATE: 1998-10-27
; PRIOR APPLICATION NUMBER: 60/106023
; PRIOR FILING DATE: 1998-10-28
; PRIOR APPLICATION NUMBER: 60/106029

Query Match      100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,7e-230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGAGGCGCGGGTGAAGGCGCATTTGATGACAGCTGGCGGCTCGAGCGCGG 60
DB 1 GGAGAGAGGCGCGGGTGAAGGCGCATTTGATGACAGCTGGCGGCTCGAGCGCGG 60
QY 61 CGGAGCGAGAGCGTGCACAGCTTCTCTCCGCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 61 CGGAGCGAGAGCGTGCACAGCTTCTCTCCGCTCTCTCTCTCTCTCTCTCTCTCT 120
QY 121 CCCGCGAGCGCGGAGCGCATGCGAGCGCGCGCGCGCGCTCCCGCGAGCGCGCG 180
DB 121 CCCGCGAGCGCGGAGCGCATGCGAGCGCGCGCGCGCGCTCCCGCGAGCGCGCG 180
QY 181 GCGTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
DB 181 GCGTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
QY 241 AGGAGAGCGAGAGGCGAGCTCGGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAG 300
DB 241 AGGAGAGCGAGAGGCGAGCTCGGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAG 300
QY 301 GCTTACAGAGGCGCGAGAGGAGTGCCTGTCGAGAGCGGAGCGCGCGCATGTTAT 360
DB 301 GCTTACAGAGGCGCGAGAGGAGTGCCTGTCGAGAGCGGAGCGCGCATGTTAT 360
QY 361 CGGCTACAGCTGGAGTCCGAGTGGGATGATTTCAAGAGAGAGAGAGAGAGAGT 420
DB 361 CGGCTACAGCTGGAGTCCGAGTGGGATGATTTCAAGAGAGAGAGAGAGAGT 420
QY 421 GGGAGAGCTTTGAGAGTCCGAGTGGGATGATTTCAAGAGAGAGAGAGAGAGT 480
DB 421 GGGAGAGCTTTGAGAGTCCGAGTGGGATGATTTCAAGAGAGAGAGAGAGAGT 480
QY 481 ATTATGCGATAGATCTTGGGAGAGAGTGGGATGATTTCAAGAGAGAGAGAGAG 540
DB 481 ATTATGCGATAGATCTTGGGAGAGAGTGGGATGATTTCAAGAGAGAGAGAGAG 540
QY 541 GTGCTCAAGAGTCTTGTGAGTGGTCACTTGGGATGATTTCAAGAGAGAGAGT 600
DB 541 GTGCTCAAGAGTCTTGTGAGTGGTCACTTGGGATGATTTCAAGAGAGAGAGT 600
QY 601 AGCGTTGATATTCATATTCATATTCATATTCATATTCATATTCATATTCATAT 660
DB 601 AGCGTTGATATTCATATTCATATTCATATTCATATTCATATTCATATTCATAT 660
QY 661 TAATTTATTTGAGCAAGAGAGCGCTGAATGAATGAATGAATGAATGAATGAAT 720
DB 661 TAATTTATTTGAGCAAGAGAGCGCTGAATGAATGAATGAATGAATGAATGAAT 720
QY 721 CTCTGTGAGAGAGCTTTGTGAGAGAGTGTGCTGATTTAGTGAGAGTGTGCTG 780
DB 721 CTCTGTGAGAGAGCTTTGTGAGAGAGTGTGCTGATTTAGTGAGAGTGTGCTG 780
QY 781 TTGGCACTTTGATGATTTACCAAGAGAGAGTGTGCTGATTTAGTGAGAGTGTG 840
DB 781 TTGGCACTTTGATGATTTACCAAGAGAGAGTGTGCTGATTTAGTGAGAGTGTG 840
QY 841 GCATCATTTATGAGAGAGTACCAAGAGAGTGTGCTGATTTAGTGAGAGTGTG 900
DB 841 GCATCATTTATGAGAGAGTACCAAGAGAGTGTGCTGATTTAGTGAGAGTGTG 900

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QY 901 TTATTTGCTTGGAGAGTTCACATTAATGACATTTTAAATGATTATGATACATCT 960
DB 901 TTATTTGCTTGGAGAGTTCACATTAATGACATTTTAAATGATTATGATACATCT 960
QY 961 GAATGAAGAGAGAGTTCATATTTGATGAGAGAGTGTGCTGATTTAGTGAGAGT 1020
DB 961 GAATGAAGAGAGAGTTCATATTTGATGAGAGAGTGTGCTGATTTAGTGAGAGT 1020
QY 1021 ATCTAGCATTTATTCATATTTGCTTCAATCAAAAGTGTGCTGATTTAGTGAGT 1080
DB 1021 ATCTAGCATTTATTCATATTTGCTTCAATCAAAAGTGTGCTGATTTAGTGAGT 1080
QY 1081 AGAATACTTTCTCATATGATGATTTTAAATGAGTGTGCTGATTTAGTGAGT 1140
DB 1081 AGAATACTTTCTCATATGATGATTTTAAATGAGTGTGCTGATTTAGTGAGT 1140
QY 1141 TTGCTTTTCTCTGATGATGATTTTAAATGAGTGTGCTGATTTAGTGAGT 1200
DB 1141 TTGCTTTTCTCTGATGATGATTTTAAATGAGTGTGCTGATTTAGTGAGT 1200
QY 1201 AATTGTAATGTTAAGATTTTATTTATCTGTTAAATTAATTTATTTCAACA 1257
DB 1201 AATTGTAATGTTAAGATTTTATTTATCTGTTAAATTAATTTATTTCAACA 1257

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RESULT 11
US-10-006-768A-430
; Sequence 430, Application US/10006768A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan I.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C10
; CURRENT FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 477
; Prior Application removed - See file wrapper or Palm
; SEQ ID NO 430
; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-006-768A-430

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Query Match      100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,7e-230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGAGAGAGGCGCGGGTGAAGGCGCATTTGATGACAGCTGGCGGCTCGAGCGCGG 60
DB 1 GGAGAGAGGCGCGGGTGAAGGCGCATTTGATGACAGCTGGCGGCTCGAGCGCGG 60
QY 61 CGGAGCGAGAGCGTGCACAGCTTCTCTCCGCTCTCTCTCTCTCTCTCTCTCTCT 120
DB 61 CGGAGCGAGAGCGTGCACAGCTTCTCTCCGCTCTCTCTCTCTCTCTCTCTCTCT 120
QY 121 CCCGCGAGCGCGGAGCGCATGCGAGCGCGCGCGCGCTCCCGCGAGCGCGCGCG 180
DB 121 CCCGCGAGCGCGGAGCGCATGCGAGCGCGCGCGCGCTCCCGCGAGCGCGCGCG 180

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Db      541 GTGCTTAAGAGTTTGTTCAGTGCTCCTTCGGCTAAATGCAAGAAATGCATGCTGTC 600
QY      601 AGCGTGTATTTACATTCATGAGAGCTGATGTTGTCAGAGCTCTTCCATTGAGCTA 660
Db      601 AGCGTGTATTTACATTCATGAGAGCTGATGTTGTCAGAGCTCTTCCATTGAGCTA 660
QY      661 TAAATTTATTTGGACCAAGAAAGCCCTGAATGATTCACAAATTAATTAATGACACTT 720
Db      661 TAAATTTATTTGGACCAAGAAAGCCCTGAATGATTCACAAATTAATTAATGACACTT 720
QY      721 CTCTGTGGAAGAGCTTGTGAGAGAAATGCTGATGATGATGATGATGATGATGATGATG 780
Db      721 CTCTGTGGAAGAGCTTGTGAGAGAAATGCTGATGATGATGATGATGATGATGATGATG 780
QY      781 TTGGCACTTTGTCAGATTAACCAAGAGAGATGCTTCTACGATGATGATGATGATGATG 840
Db      781 TTGGCACTTTGTCAGATTAACCAAGAGAGATGCTTCTACGATGATGATGATGATGATG 840
QY      841 GCATCATTTATGAAAGAACTACCAAAATTAATGCTTTAATTTTCATTTCTGCTCTTTT 900
Db      841 GCATCATTTATGAAAGAACTACCAAAATTAATGCTTTAATTTTCATTTCTGCTCTTTT 900
QY      901 TTAATATGCTTGGATGATGCTTCAATTAATGATGATTAATTAATTAATTAATTAATTA 960
Db      901 TTAATATGCTTGGATGATGCTTCAATTAATGATGATTAATTAATTAATTAATTAATTA 960
QY      961 GAATGAAAGCAAGCAATTAATTAATGTTTACAGACCAAGCTGATTTACACTGTTTAA 1020
Db      961 GAATGAAAGCAAGCAATTAATTAATGTTTACAGACCAAGCTGATTTACACTGTTTAA 1020
QY      1021 ATTCAGCATTTATGATTTGCTTCAATCAAGAGCTTCAATTAATTTTATGATGCTT 1080
Db      1021 ATTCAGCATTTATGATTTGCTTCAATCAAGAGCTTCAATTAATTTTATGATGCTT 1080
QY      1081 AGAATACTTCTTCATAGTACATTCCTCAACCTAATTAATTTGGAATTTGTTGCTCT 1140
Db      1081 AGAATACTTCTTCATAGTACATTCCTCAACCTAATTAATTTGGAATTTGTTGCTCT 1140
QY      1141 TTGCTTTTCTCTTATGATTAATGATTTTAAATTAATTAATTAATTAATTAATTAATTA 1200
Db      1141 TTGCTTTTCTCTTATGATTAATGATTTTAAATTAATTAATTAATTAATTAATTAATTA 1200
QY      1201 AATTTGTAATGTTAAGAAATTTTATTAATGATTAATTAATTAATTAATTAATTAATTA 1257
Db      1201 AATTTGTAATGTTAAGAAATTTTATTAATGATTAATTAATTAATTAATTAATTAATTA 1257

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; LENGTH: 1257
; TYPE: DNA
; ORGANISM: Homo Sapien
US-10-006-856A-430
Query Match      100.0%; Score 1257; DB 44; Length 1257;
Best Local Similarity 100.0%; Pred. No. 2,7e-230;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  GGAGAGAGGCGGGGGTAAAGCGCATTAATGATGATGATGATGATGATGATGATGATGATG 60
Db      1  GGAGAGAGGCGGGGGTAAAGCGCATTAATGATGATGATGATGATGATGATGATGATGATG 60
QY      61  CGAGAGCAGAGCTGACACAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
Db      61  CGAGAGCAGAGCTGACACAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
QY      61  CGAGAGCAGAGCTGACACAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
Db      61  CGAGAGCAGAGCTGACACAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
QY      121  CCGGCGAGCGCGGAGCAGTGGACCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
Db      121  CCGGCGAGCGCGGAGCAGTGGACCCAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 180
QY      181  GCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
Db      181  GCTCTCTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
QY      241  AGGGGAGCAAAAGGCGAGCTCCGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
Db      241  AGGGGAGCAAAAGGCGAGCTCCGCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 300
QY      301  GCTTACAAAGGCGCGAGAGTGGCTGTCAGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
Db      301  GCTTACAAAGGCGCGAGAGTGGCTGTCAGACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 360
QY      361  CGGGTACACCTCGGAGATCCAGTGGAGTGGATTCAAAGGAGGAGGAGGAGGAGGAGGAGGAG 420
Db      361  CGGGTACACCTCGGAGATCCAGTGGAGTGGATTCAAAGGAGGAGGAGGAGGAGGAGGAGGAG 420
QY      421  GGGAAAGCTTTGAGAGAGTCTGACACCCAACTAAGAGAGGAGGAGGAGGAGGAGGAGGAG 480
Db      421  GGGAAAGCTTTGAGAGAGTCTGACACCCAACTAAGAGAGGAGGAGGAGGAGGAGGAGGAG 480
QY      481  AATATGAGATGATCTTGGGAAATTTGGGAGTGTACATTTACAAAGAGTGTCAATA 540
Db      481  AATATGAGATGATCTTGGGAAATTTGGGAGTGTACATTTACAAAGAGTGTCAATA 540
QY      541  GTGCTTAAGAGTTTGTTCAGTGCTCCTCGGCTAAATGCAAGAAATGCATGCTGTC 600
Db      541  GTGCTTAAGAGTTTGTTCAGTGCTCCTCGGCTAAATGCAAGAAATGCATGCTGTC 600
QY      601  AGCGTGTATTTACATTCATGAGAGCTGATGATGATGATGATGATGATGATGATGATGATG 660
Db      601  AGCGTGTATTTACATTCATGAGAGCTGATGATGATGATGATGATGATGATGATGATGATG 660
QY      661  TAAATTTATTTGGACCAAGAAAGCCCTGAATGATTCACAAATTAATTAATTAATTAATTA 720
Db      661  TAAATTTATTTGGACCAAGAAAGCCCTGAATGATTCACAAATTAATTAATTAATTAATTA 720
QY      721  CTCTGTGGAAGAGCTTGTGAGAGAAATGCTGATGATGATGATGATGATGATGATGATGATG 780
Db      721  CTCTGTGGAAGAGCTTGTGAGAGAAATGCTGATGATGATGATGATGATGATGATGATGATG 780
QY      781  TTGGCACTTTGTCAGATTAACCAAGAGAGATGCTTCTACGATGATGATGATGATGATGATG 840
Db      781  TTGGCACTTTGTCAGATTAACCAAGAGAGATGCTTCTACGATGATGATGATGATGATGATG 840
QY      841  GCATCATTTATGAAAGAACTACCAAAATTAATGCTTTAATTTTCATTTCTGCTCTTTT 900
Db      841  GCATCATTTATGAAAGAACTACCAAAATTAATGCTTTAATTTTCATTTCTGCTCTTTT 900
QY      901  TTAATATGCTTGGATGATGCTTCAATTAATGATGATTAATTAATTAATTAATTAATTAATTA 960
Db      901  TTAATATGCTTGGATGATGCTTCAATTAATGATGATTAATTAATTAATTAATTAATTAATTA 960

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QY 961 GAATGAAAAGCAAGCTAAATATGTTACAGACCAAGTGTATTCACACTGTTTAA 1020
DB 961 GAATGAAAAGCAAGCTAAATATGTTACAGACCAAGTGTATTCACACTGTTTAA 1020
QY 1021 ACTTACCATTTATTCATTTGCTTCATTCACCAAGTGTATTCATTTTGTGTT 1080
DB 1021 ACTTACCATTTATTCATTTGCTTCATTCACCAAGTGTATTCATTTTGTGTT 1080
QY 1081 AGAATACATTTCTTCATAGTACATTCCTCAACCTTAATTTGAAATTTGTGTT 1140
DB 1081 AGAATACATTTCTTCATAGTACATTCCTCAACCTTAATTTGAAATTTGTGTT 1140
QY 1141 TTTGTTTTTCTCTGATATGATTTTAAAAAATATTAAGTACCAATCTTTGAT 1200
DB 1141 TTTGTTTTTCTCTGATATGATTTTAAAAAATATTAAGTACCAATCTTTGAT 1200
QY 1201 AATTTGTAATGTTAGAAATTTTATATCTGTAATTAATTAATTTATTCACA 1257
DB 1201 AATTTGTAATGTTAGAAATTTTATATCTGTAATTAATTAATTTATTCACA 1257

RESULT 14
US-10-006-867-121
Sequence 121, Application US/10006867
GENERAL INFORMATION:
APPLICANT: Eaton, Dan L.
APPLICANT: Filvaroff, Ellen
APPLICANT: Gerlitsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William J.
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3230R1C1
CURRENT APPLICATION NUMBER: US/10/006, 867
CURRENT FILING DATE: 2001-12-06
PRIOR APPLICATION NUMBER: 60/063435
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/064215
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/082797
PRIOR FILING DATE: 1998-04-22
PRIOR APPLICATION NUMBER: 60/083495
PRIOR FILING DATE: 1998-04-29
PRIOR APPLICATION NUMBER: 60/085579
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/087759
PRIOR FILING DATE: 1998-06-02
PRIOR APPLICATION NUMBER: 60/088021
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088029
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PRIOR APPLICATION NUMBER: 60/088030
PRIOR FILING DATE: 1998-06-04
PRIOR APPLICATION NUMBER: 60/088734
PRIOR FILING DATE: 1998-06-10
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PRIOR APPLICATION NUMBER: 60/089514
PRIOR FILING DATE: 1998-06-16

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PRIOR APPLICATION NUMBER: 60/096012
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PRIOR FILING DATE:	1998-11-17
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PRIOR FILING DATE:	1998-12-30
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PRIOR FILING DATE:	1999-01-12
PRIOR APPLICATION NUMBER:	60/116527
PRIOR FILING DATE:	1999-01-20
PRIOR APPLICATION NUMBER:	60/116843
PRIOR FILING DATE:	1999-01-22
PRIOR APPLICATION NUMBER:	60/119285
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PRIOR FILING DATE:	1999-04-27
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PRIOR APPLICATION NUMBER:	09/380139
PRIOR FILING DATE:	1998-08-25
PRIOR APPLICATION NUMBER:	09/311832
PRIOR FILING DATE:	1999-05-14
PRIOR APPLICATION NUMBER:	09/380137
PRIOR FILING DATE:	1999-08-05

[illegible]

QY 961 GAATGAAGCAAGCTAATATGTTACAGACCAAGTGTGATTTACACTGTTTAA 1020
DB 961 GAATGAAGCAAGCTAATATGTTACAGACCAAGTGTGATTTACACTGTTTAA 1020
QY 1021 ACTACATATATCATTTGCTTCATCAACCAAGTGTTCATATTTTGTAGTGT 1080
DB 1021 ACTACATATATCATTTGCTTCATCAACCAAGTGTTCATATTTTGTAGTGT 1080
QY 1081 AGAATATCTTCTATAGTACATTCCTCAACCTATATTTGGAATATTTGTGTCT 1140
DB 1081 AGAATATCTTCTATAGTACATTCCTCAACCTATATTTGGAATATTTGTGTCT 1140
QY 1141 TTTGTTTTTCTCTATAGTATAGCAATTTTAAAAAATATTAAGCTACATCTTGTAC 1200
DB 1141 TTTGTTTTTCTCTATAGTATAGCAATTTTAAAAAATATTAAGCTACATCTTGTAC 1200
QY 1201 AATTTGTAATGTATGAATTTTATATCTGTATTAATATTTTCCACA 1257
DB 1201 AATTTGTAATGTATGAATTTTATATCTGTATTAATATTTTCCACA 1257

RESULT 15
US-10-007-194A-430
; Sequence 430, Application US/10007194A
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Bolstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC6
; CURRENT APPLICATION NUMBER: US/10/007,194A
; CURRENT FILING DATE: 2002-06-25
; PRIOR APPLICATION NUMBER: 60/098716
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098723
; PRIOR FILING DATE: 1998-09-01
; PRIOR APPLICATION NUMBER: 60/098749
; PRIOR FILING DATE: 1998-09-01
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;; PRIOR FILING DATE: 1998-10-28
;; PRIOR APPLICATION NUMBER: 60/106029

Query Match
Best Local Similarity 100.0%; Score 1257; DB 44; Length 1257;
Matches 1257; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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1 GGAGAGAGCGCGCGCGGGTGAAGCGCATATGACGCTCGGGGCGTGGAGCGGG 60
61 CGGAGCAGACGCTGACCAAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
61 CGGAGCAGACGCTGACCAAGCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 120
121 CCGGCGAGCGCGGAGCGCATGAGCGGCGCGCGCGCGCGCGCGCGCGCGCG 180
121 CCGGCGAGCGCGGAGCGCATGAGCGGCGCGCGCGCGCGCGCGCGCGCGCG 180
181 GCT 240
181 GCT 240
241 AGGGAGACCAAAAGCGCAGCTCCGGCAGAGGAGGTGTGACCTGTATATGAA 300
241 AGGGAGACCAAAAGCGCAGCTCCGGCAGAGGAGGTGTGACCTGTATATGAA 300
301 GCTTACAGGGCGCAGAGGAGGTGTGACAGCGGAGCGCGCGCGCGCGCGCG 360
301 GCTTACAGGGCGCAGAGGAGGTGTGACAGCGGAGCGCGCGCGCGCGCGCG 360
361 CGGGTACACCTGGGATCCAGGTGGATGATTCAAAGAGAAAGGGGAAATGTGA 420
361 CGGGTACACCTGGGATCCAGGTGGATGATTCAAAGAGAAAGGGGAAATGTGA 420
421 GGGAAAGCTTTGAGAGAGTCTGAGACCCAACTACAGAGGAGGAGGAGGAG 480
421 GGGAAAGCTTTGAGAGAGTCTGAGACCCAACTACAGAGGAGGAGGAGGAG 480
481 ATTATGCAATGATCTTGGGAAATTTGGGAGGTGATTCAAAGAGGAGGAGG 540
481 ATTATGCAATGATCTTGGGAAATTTGGGAGGTGATTCAAAGAGGAGGAGG 540
541 GTGCTTAAGAGTTTGTTCAGTGGCTCCTCGGCTTAAATGAGAAATGCATG 600
541 GTGCTTAAGAGTTTGTTCAGTGGCTCCTCGGCTTAAATGAGAAATGCATG 600
601 AGCGTGTGATTTACATTCATGAGTGAATGTCAGGACCTTCCCATTTAGCT 660
601 AGCGTGTGATTTACATTCATGAGTGAATGTCAGGACCTTCCCATTTAGCT 660
661 TAAATTTATTTGACCAAGAGCCCTGAAATGAATTCAAATTAATTTATGCACT 720
661 TAAATTTATTTGACCAAGAGCCCTGAAATGAATTCAAATTAATTTATGCACT 720
721 TAAATTTATTTGACCAAGAGCCCTGAAATGAATTCAAATTAATTTATGCACT 780
721 TAAATTTATTTGACCAAGAGCCCTGAAATGAATTCAAATTAATTTATGCACT 780
781 TTGGCAGCTTTGACAGATTACCAAAAGAGAGTGTCTTACGTGATGGAATTC 840
781 TTGGCAGCTTTGACAGATTACCAAAAGAGAGTGTCTTACGTGATGGAATTC 840
841 GCATCATTTATGAGAACTACCAAAATTAATTTATTTATTTATTTATTTATTT 900
841 GCATCATTTATGAGAACTACCAAAATTAATTTATTTATTTATTTATTTATTT 900
901 TTATTTATGCTTGAAGTGTCTTAAATGACATTTTAAATTAATTTATTTATTT 960
901 TTATTTATGCTTGAAGTGTCTTAAATGACATTTTAAATTAATTTATTTATTT 960


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QY      961 GAATGAAAGCAAGCTAAATATGTTACAGACCAAGTGTGATTCACACTGTTTTAA 1020
        |||||||
Db      961 GAATGAAAGCAAGCTAAATATGTTACAGACCAAGTGTGATTCACACTGTTTTAA 1020
QY      1021 ATCTACATTAATTCATTTGCTTCATCAACAAAGGTTTCAATATTTTAAAGTGTG 1080
        |||||||
Db      1021 ATCTACATTAATTCATTTGCTTCATCAACAAAGGTTTCAATATTTTAAAGTGTG 1080
QY      1081 AGAATACCTTTCCTCATAGTCACATTCCTCAACCTATTAATTTGGAATATGTTGTGCT 1140
        |||||||
Db      1081 AGAATACCTTTCCTCATAGTCACATTCCTCAACCTATTAATTTGGAATATGTTGTGCT 1140
QY      1141 TTGTTTTTCTCTTAGTATAGCATTTTAAAAAATATAAAGCTACCAATCTTGTAC 1200
        |||||||
Db      1141 TTGTTTTTCTCTTAGTATAGCATTTTAAAAAATATAAAGCTACCAATCTTGTAC 1200
QY      1201 AATTGTAAATGTAGAAATTTTATATCTGTAAATAAATAATTTATTTCAACA 1257
        |||||||
Db      1201 AATTGTAAATGTAGAAATTTTATATCTGTAAATAAATAATTTATTTCAACA 1257

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Search completed: August 20, 2003, 15:54:54
 Job time : 4240 secs

Db	246	AGGGGAACCAAAAGGCGCAGCTCCGGCAGAGGAGGAGTGGTGAACCTGTAAATGGAATGT	305
OY	301	GCTTCAAGGGCCACAGAGAGTCCCTGGACGAGAGGGAGCCCTGGGGCCATGTATTTC	360
Db	306	CTTTCACAAAGGGCCACAGAGAGTGGCTGGTCGAGAGGGAGGCCCTGGGGCCATGTGCTTC	365
OY	361	CGGCTACACCTGGGAGTCCCAAGGTCCGGATGATTCACAAAGGAGAAAAAGGGGAGATGCTGA	420
Db	366	CGGGTACACCTGGGAGTCCCAAGGTCCGGATGATTCACAAAGGAGAAAAAGGGGAGATGCTGA	425
OY	421	GGGAAAGCTTTGAGAGTCTCGACACCCCACTACAGCATGTTTCATGAGTTCAATTGA	480
Db	426	GGGAAGCTTTGAGAGTCTCGACACCCCACTACAGCATGTTTCATGAGTTCAATTGA	485
OY	481	ATTATGAGATAGATCTTGGGAAATTTGGGAGTGTACATTTTCAAAAGATGCTTCAATA	540
Db	486	ATTATGAGATAGATCTTGGGAAATTTGGGAGTGTACATTTTCAAAAGATGCTTCAATA	545
OY	541	GTCGCTACAGAGTTTGTTCAGTGGCTCACTCGGCTAAATATGCAAAATGAGATGCTGC	600
Db	546	GTCGCTACAGAGTTTGTTCAGTGGCTCACTCGGCTAAATATGCAAAATGAGATGCTGC	605
OY	601	AGCGTTGATATTCATCAATTCATGAGCTGAATGTTCAGAGCCTCTCCATTTGAAGCTA	660
Db	606	AGCGTTGATATTCATCAATTCATGAGCTGAATGTTCAGAGCCTCTCCATTTGAAGCTA	665
OY	661	TAAATTTATTTGGACCAAGAGAGCCCTGAAATGAAATTCACATTAATATTCATGCGACTT	720
Db	666	TAAATTTATTTGGACCAAGAGAGCCCTGAAATGAAATTCACATTAATATTCATGCGACTT	725
OY	721	CTTCTGTGGAAAGACTTTGTGAAGAAATVTGGTGTAGTGAATGTTGCTATCTGGG	780
Db	726	CTTCTGTGGAAAGACTTTGTGAAGAAATVTGGTGTAGTGAATGTTGCTATCTGGG	785
OY	781	TTGGGACTTGTTCAGATTTACCCAAAAGAGATGCTTCTACGTGAGATTCAGTTCTC	840
Db	786	TTGGGACTTGTTCAGATTTACCCAAAAGAGATGCTTCTACGTGAGATTCAGTTCTC	845
OY	841	GCATCATTTATGGAAGACTACCAAAATTAATGCTTAATTTTCATTTGGTACCTCTTTT	900
Db	846	GCATCATTTATGGAAGACTACCAAAATTAATGCTTAATTTTCATTTGGTACCTCTTTT	905
OY	901	TTATTTATGCCCTTGGAGTGGTTCACATTAATGACATTTTAAATGATTTATGTATACATCT	960
Db	906	TTATTTATGCCCTTGGAGTGGTTCACATTAATGACATTTTAAATGATTTATGTATACATCT	965
OY	961	GAAATGAAAAGCAAGCTAAATATGTTTACAGACCAAGTGTGATTTCACTGTTTTTAA	1020
Db	966	GAAATGAAAAGCAAGCTAAATATGTTTACAGACCAAGTGTGATTTCACTGTTTTTAA	1025
OY	1021	ATCTAGCATTTATTCATTTTGGTTCAAATAAAGTGGTTCAATATTTTTTTAAAGTTGGT	1080
Db	1026	ATCTAGCATTTATTCATTTTGGTTCAAATAAAGTGGTTCAATATTTTTTTAAAGTTGGT	1085
OY	1081	AGAAATCTTTCTTCATAGTACATCTCTCAACCTATATTTGGAATATGTGTGGTCT	1144
Db	1086	AGAAATCTTTCTTCATAGTACATCTCTCAACCTATATTTGGAATATGTGTGGTCT	1149
OY	1141	TTTGTGTTTCTCTTAGTATAGCATTTTAAAAAAATATTAAGTACCAATCTTTGTAC	1200
Db	1146	TTTGTGTTTCTCTTAGTATAGCATTTTAAAAAAATATTAAGTACCAATCTTTGTAC	1205
OY	1201	AATTTGTAAAGTTAAAGATTTTTTTTTTATCTGTAAATAAATTTATTTCCACA	1257
Db	1206	AATTTGTAAAGTTAAAGATTTTTTTTTTATCTGTAAATAAATTTATTTCCACA	1262

APPLICANT: Diggans, James C.
 APPLICANT: Zeng, Wen
 APPLICANT: Gene Logic, Inc.
 TITLE OF INVENTION: Gene Expression Profiles in Breast Tissue
 FILE REFERENCE: 44921-5070-US
 CURRENT APPLICATION NUMBER: US/10/470, 050
 CURRENT FILING DATE: 2003-07-25
 PRIOR APPLICATION NUMBER: US 60/263, 757
 PRIOR FILING DATE: 2001-01-25
 PRIOR APPLICATION NUMBER: US 60/286, 090
 PRIOR FILING DATE: 2001-04-25
 PRIOR APPLICATION NUMBER: US 60/292, 517
 PRIOR FILING DATE: 2001-05-23
 PRIOR APPLICATION NUMBER: PCT/US02/02176
 PRIOR FILING DATE: 2002-01-25
 NUMBER OF SEQ ID NOS: 1246
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 171
 LENGTH: 582
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: Genbank Accession No. AA584310
 US-10-470-050-171

Query Match	45.0%;	Score 565.8;	DB 6;	Length 582;
Best Local Similarity	98.8%;	Pred. No. 3.5e-141;		
Matches 570;	Conservative 0;	Mismatches 7;	Indels 0;	Gaps 0;

QY	681	AGCCCTGAAAGATTCAACATTAAATTTTCATGCACTCTTCTGTGGAAGACTTTGT	740
Db	582	AGCCCTGAAAGATTCAACATTAAATTTTCATGCACTCTTCTGTGGAAGACTTTGT	523
QY	741	GAAGAAATGGTGCATTTAGTGGAGTTCATCTGGGTTGGCACTGTTCAATAC	800
Db	522	GAAGAAATGGTGCATTTAGTGGAGTTCATCTGGGTTGGCACTGTTCAATAC	463
QY	801	CCAAAGAGATGCTCTACGGAATGGAATTCAGTTCTGCCATCATATGGAAGACTA	860
Db	462	CCAAAGAGATGCTCTCTACTGATGGAATTCAGTTCTGCCATCATATGGAAGACTA	403
QY	861	CCAAATTAATATGCTTAAATTTTCATTTGCGACCTCTTTTAAATATGCTTGGAAATGT	920
Db	402	CCAAATTAATATGCTTAAATTTTCATTTGCTACCTCGGCTTTTATATGCTTGGAAATGT	343
QY	921	TCACTTAATGACATTTTAAATTAAGTTTATGTATATACATCTGAATGAAAGCAAGCTAAA	980
Db	342	TCACTTAATGACATTTTAAATTAAGTTTATGTATATACATCTGAATGAAAGCAAGCTAAA	283
QY	981	TATGTTTACGACCAAAAGTGTGATTTCACACTGTTTTTAAATCTAGCAATTAATCAATTTTG	1040
Db	282	TATGTTTACGACCAAAAGTGTGATTTCACACTGTTTTTAAATCTAGCAATTAATCAATTTTG	223
QY	1041	CTTCAATCAAAAGGTTTTCAATATTTTTTTTTTAAATGGTGTGAATACCTTCTCATATCTC	1100
Db	222	CTTCAATCAAAAGGTTTTCAATATTTTTTTTTTAAATGGTGTGAATACCTTCTCATATCTC	163
QY	1101	ACATTTCTCAACCTATAATTTGGAAATATGTTGTGCTTTGTGTTTTTCTCTTAGATAT	1160
Db	162	ACATTTCTCAACCTATGAGGGGGAATATGTTGTGCTTTGTGTTTTTCTCTTAGATAT	103
QY	1161	AGCAATTTTAAAAAATATATAAGCTACCAATCTTTGTACAAATTTGTAAATGTTAAGAT	1220
Db	102	AGCAATTTTAAAAAATATATAAGCTACCAATCTTTGTACAAATTTGTAAATGTTAAGAT	43
QY	1221	TTTTTTATATGCTTAAATTAATTAATATTTCCACA	1257
Db	42	TTTTTTATATGCTTAAATTAATTAATATTTTCCACA	6

RESULT 2
US-10-470-050-171/c
; Sequence 171, Application US/10470050
; GENERAL INFORMATION:
; APPLICANT: Orr, Michael S.
; APPLICANT: Nation, Michele

RESULT 3
US-10-085-783A-57095
; Sequence 57095, Application US/10085783A


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RESULT 7
US-10-085-783A-52366
; Sequence 52366, Application US/10085783A
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 52366
; LENGTH: 300
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (9)..(9)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (56)..(56)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (179)..(179)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (183)..(183)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (274)..(274)
; OTHER INFORMATION: n is a, c, g, or t
; NAME/KEY: misc_feature
; LOCATION: (296)..(296)
; OTHER INFORMATION: n is a, c, g, or t
US-10-085-783A-52366

Query Match      22.4%; Score 281.8; DB 6; Length 300;
Best Local Similarity 95.7%; Pred. No. 1.9e-65;
Matches 286; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 952 TTATCATGTGAATGAAGCAAGCTAAATATGTTTACAGACCAAGTGATTCACAC 1011
DB 2 TATACATTGTAATGAAGCAAGCTAAATATGTTTACAGACCAAGTGATTCACAC 61
QY 1012 TGTTTTAAATCAGATTAATTCATTTTCCTCAATCAAAAGTGTTCAATATTTTTTT 1071
DB 62 TGTTTTAAATCAGATTAATTCATTTTCCTCAATCAAAAGTGTTCAATATTTTTTT 121
QY 1072 TAGTGTGATGAATTAATTCCTTCATAGTACATTCCTCAACCTAATATTTGGAAATTTG 1131
DB 122 TAGTGTGATGAATTAATTCCTTCATAGTACATTCCTCAACCTAATATTTGGAAATTTG 181
QY 1132 TTGTGTGCTTTTGTCTTCTTCTAGTATAGCATTTTAAAAAATATAAAGCTACCAA 1191
DB 182 TGTGTGCTTTTGTCTTCTTCTAGTATAGCATTTTAAAAAATATAAAGCTACCAA 241
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QY 1192 TCTTTGATCAATTTGTAATGTTAAGATTTTTTTTATATCTGTAAATTAATTAATTTATT 1250
DB 242 TCTTTGATCAATTTGTAATGTTAAGATTTTTTTTATATCTGTAAATTAATTAATTTATT 300

RESULT 8
US-10-357-930-45880
; Sequence 45880, Application US/10357930
; GENERAL INFORMATION:
; APPLICANT: Schllegel, Robert
; APPLICANT: Endege, Wilson
; APPLICANT: Monahan, John
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
; FILE REFERENCE: MRI-007HCN
; CURRENT APPLICATION NUMBER: US/10/357,930
; CURRENT FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: 09/785,276
; PRIOR FILING DATE: 2003-02-16
; PRIOR APPLICATION NUMBER: 60/183,319
; PRIOR FILING DATE: 2000-02-17
; PRIOR APPLICATION NUMBER: 60/189,862
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: 60/207,454
; PRIOR FILING DATE: 2000-05-25
; PRIOR APPLICATION NUMBER: 60/211,314
; PRIOR FILING DATE: 2000-06-09
; PRIOR APPLICATION NUMBER: 60/219,007
; PRIOR FILING DATE: 2000-07-18
; PRIOR APPLICATION NUMBER: 60/255,281
; PRIOR FILING DATE: 2000-12-13
; NUMBER OF SEQ ID NOS: 62232
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 45880
; LENGTH: 555
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-357-930-45880

Query Match      21.2%; Score 267; DB 6; Length 555;
Best Local Similarity 98.2%; Pred. No. 2.6e-61;
Matches 270; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 506 TGGGAGTGTACATTTACAAAGATGGCTCAATAGTCGTAAAGATTTTGTCTAGTGG 565
DB 281 TCCAGATGTACATTTACAAAGATGGCTCAATAGTCGTAAAGATTTTGTCTAGTGG 340
QY 566 CTCACCTTGGCTAAATGAGAAATGCAATGCTGTGACGCTGTGATTTACATTCATGG 625
DB 341 CTCACCTTGGCTAAATGAGAAATGCAATGCTGTGACGCTGTGATTTACATTCATGG 400
QY 626 AGCTGATGTTTCAGGACCTCTTCCATTTGAAGCTAATTAATTTTGGACCAAGAGCCC 685
DB 401 AGCTGATGTTTCAGGACCTCTTCCATTTGAAGCTAATTAATTTTGGACCAAGAGCCC 460
QY 686 TGAATGAATTCACAAATTAATTAATTCATGCACTTCTCTGCGAAGGACTTTGCAAG 745
DB 461 TGAATGAATTCACAAATTAATTAATTCATGCACTTCTCTGCGAAGGACTTTGCAAG 520
QY 746 AATTGCTGCTGATTAATGAGATGTTGCAATCTGGG 780
DB 521 AATTGCTGCTGATTAATGAGATGTTGCAATCTGGG 555

RESULT 9
US-10-085-783A-11744
; Sequence 11744, Application US/10085783A
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Liew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
```

;; CURRENT APPLICATION NUMBER: US/10/085,783A
;; CURRENT FILING DATE: 2002-02-28
;; PRIOR APPLICATION NUMBER: US 60/305,340
;; PRIOR FILING DATE: 2001-07-13
;; PRIOR APPLICATION NUMBER: US 60/275,017
;; PRIOR FILING DATE: 2001-03-12
;; PRIOR APPLICATION NUMBER: US 60/271,955
;; PRIOR FILING DATE: 2001-02-28
;; NUMBER OF SEQ ID NOS: 58994
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 11744
;; LENGTH: 251
;; TYPE: DNA
;; ORGANISM: Human
;; FEATURE:
;; NAME/KEY: misc-feature
;; LOCATION: (130)..(133)
;; OTHER INFORMATION: n is a, c, g, or t
;; FEATURE:
;; NAME/KEY: misc-feature
;; LOCATION: (133)..(133)
;; OTHER INFORMATION: n is a, c, g, or t
US-10-085-783A-11744

Query Match 19.8%; Score 249; DB 6; Length 251;
Best Local Similarity 99.2%; Pred. No. 9.6e-57;
Matches 249; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1003 ATTCACACTGTTTAAATCAGATATTCATTGCTCAATTCACAAAGTGTTCAA 1062
DB 1 ATTCACACTGTTTAAATCAGATATTCATTGCTCAATTCACAAAGTGTTCAA 60
QY 1063 TATTTTGTGTTAGTGAATACCTTCTCATAGTACATTCCTCAACCTATATTT 1122
DB 61 TATTTTGTGTTAGTGAATACCTTCTCATAGTACATTCCTCAACCTATATTT 120
QY 1123 GGAATATGTTGCTGCTTTGTTTCTCTAGTATAGCATTTTAAAAATATATA 1182
DB 121 GGAATATGTTGCTGCTTTGTTTCTCTAGTATAGCATTTTAAAAATATATA 180
QY 1183 AGCTACCAATCTTGTACAAATTTGTAATGTTAAGAAATTTTATATCTGTAAATTA 1242
DB 181 AGCTACCAATCTTGTACAAATTTGTAATGTTAAGAAATTTTATATCTGTAAATTA 240
QY 1243 AAATTTATTTCC 1253
DB 241 AAATTTATTTCC 251

RESULT 10
US-10-357-930-30335/C
;; Sequence 30335, Application US/10357930
;; GENERAL INFORMATION:
;; APPLICANT: Schlegel, Robert
;; APPLICANT: Endegle, Wilson
;; APPLICANT: Monahan, John
;; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
;; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
;; FILE REFERENCE: HUMAN PROSTATE CANCER
;; CURRENT APPLICATION NUMBER: US/10/357,930
;; PRIOR APPLICATION NUMBER: 09/785,276
;; PRIOR FILING DATE: 2003-02-16
;; PRIOR APPLICATION NUMBER: 60/183,319
;; PRIOR FILING DATE: 2000-02-17
;; PRIOR APPLICATION NUMBER: 60/189,862
;; PRIOR FILING DATE: 2000-03-16
;; PRIOR APPLICATION NUMBER: 60/207,454
;; PRIOR FILING DATE: 2000-05-25
;; PRIOR APPLICATION NUMBER: 60/211,314
;; PRIOR FILING DATE: 2000-06-09
;; PRIOR APPLICATION NUMBER: 60/219,007

;; PRIOR FILING DATE: 2000-07-18
;; PRIOR APPLICATION NUMBER: 60/255,281
;; PRIOR FILING DATE: 2000-12-13
;; NUMBER OF SEQ ID NOS: 62232
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 30335
;; LENGTH: 1544
;; TYPE: DNA
;; ORGANISM: Homo sapiens
;; FEATURE:
;; NAME/KEY: misc-feature
;; LOCATION: 1531_1544
;; OTHER INFORMATION: n - A,T,C or G
US-10-357-930-30335

Query Match 18.2%; Score 228.8; DB 6; Length 1544;
Best Local Similarity 96.5%; Pred. No. 8.6e-51;
Matches 245; Conservative 0; Mismatches 7; Indels 2; Gaps 1;

QY 506 TCGGAGTGTACATTATACAAAGATGCTCAATAGTGTCTTAAGAGTTTGTTCAGTGG 565
DB 497 TCGGAGTGTACATTATACAAAGATGCTCAATAGTGTCTTAAGAGTTTGTTCAGTGG 438
QY 566 CTCACCTGCGCTAAATGACAAATGCAATGCTGACGCTGATTCACATTCATG 625
DB 437 CTCACCTGCGCTAAATGACAAATGCAATGCTGACGCTGATTCACATTCATG 378
QY 626 AGCTGAATGTTCAGGACCTCTCCCATTTGAAGCTATATTTTGGACCAAGAGCC 685
DB 377 AGCTGAATGTTCAGGACCTCTCCCATTTGAAGCTATATTTTGGACCAAGAGCC 318
QY 686 TGAATGATTCACCAATTAATATTCATGCACTTCTGTGGA--AGCACTTGTGAA 743
DB 317 TGAATGATTCACCAATTAATATTCATGCACTTCTGTGGAAGCAAGCACTTGTGGA 258
QY 744 GGAATGCTGCTGG 757
DB 257 GGAATGCTGCTGG 244

RESULT 11
US-10-357-930-16054
;; Sequence 16054, Application US/10357930
;; GENERAL INFORMATION:
;; APPLICANT: Schlegel, Robert
;; APPLICANT: Endegle, Wilson
;; APPLICANT: Monahan, John
;; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
;; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF
;; FILE REFERENCE: HUMAN PROSTATE CANCER
;; CURRENT APPLICATION NUMBER: US/10/357,930
;; PRIOR APPLICATION NUMBER: 09/785,276
;; PRIOR FILING DATE: 2003-02-16
;; PRIOR APPLICATION NUMBER: 60/183,319
;; PRIOR FILING DATE: 2000-02-17
;; PRIOR APPLICATION NUMBER: 60/189,862
;; PRIOR FILING DATE: 2000-03-16
;; PRIOR APPLICATION NUMBER: 60/207,454
;; PRIOR FILING DATE: 2000-05-25
;; PRIOR APPLICATION NUMBER: 60/211,314
;; PRIOR FILING DATE: 2000-06-09
;; PRIOR APPLICATION NUMBER: 60/219,007
;; PRIOR FILING DATE: 2000-07-18
;; PRIOR APPLICATION NUMBER: 60/255,281
;; PRIOR FILING DATE: 2000-12-13
;; NUMBER OF SEQ ID NOS: 62232
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 16054
;; LENGTH: 474
;; TYPE: DNA
;; ORGANISM: Homo sapiens


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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 305, 432
; OTHER INFORMATION: n - A,T,C or G
; US-10-357-930-16054

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Query Match      16.8%; Score 210.8; DB 6; Length 474;
Best Local Similarity 95.6%; Pred. No. 2.4e-46;
Matches 237; Conservative 0; Mismatches 9; Indels 2; Gaps 2;

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QY 506 TCGGAGTGTACATTTACAAAGATGCTCAATAGTGTCAAGAGCTTTGTGTCAGTGG 565
DB 225 TCCAGATGTACATTTACAAAGATGCTCAATAGTGTCAAGAGCTTTGTGTCAGTGG 284
QY 566 CTCACCTTCGCTAAATGAGAAATGATGCTGTGAGCTGTGTATTTACATTCATG 625
DB 285 CTCACCTTCGCTAAATGAGAAATGATGCTGTGAGCTGTGTATTTACATTCATG 344
QY 626 AGC-TGATGTTCAGAGCTCTTCCCA-TTGAAGCTATATTTATTTGGACCAAGAGAGC 683
DB 345 ACCTTGAATGTCAAGAGCTCTTCCCATTTGAAGCTATATTTATTTGGACCAAGAGAGC 404
QY 684 CCGTGAATGATTCACATTAATATATTCATCCGACTTCTGTGGAAGAGCTTTGTGA 743
DB 405 CCGTGAATGATTCACATTAATATATTCATCCGACTTCTGTGGAAGAGCTTTGTGA 464
QY 744 GGAATTGG 751
DB 465 AGAATTTG 472

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RESULT 12

US-10-085-783A-49278

Sequence 49278, Application US/10085783A

GENERAL INFORMATION:

APPLICANT: ChondroGene Inc.

APPLICANT: Liew, C.C.

TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis

FILE REFERENCE: 4231/2002

CURRENT APPLICATION NUMBER: US/10/085,783A

CURRENT FILING DATE: 2002-02-28

PRIOR APPLICATION NUMBER: US 60/305,340

PRIOR FILING DATE: 2001-07-13

PRIOR APPLICATION NUMBER: US 60/275,017

PRIOR FILING DATE: 2001-03-12

PRIOR APPLICATION NUMBER: US 60/271,955

PRIOR FILING DATE: 2001-02-28

NUMBER OF SEQ ID NOS: 58994

SOFTWARE: PatentIn version 3.2

SEQ ID NO 49278

LENGTH: 300

TYPE: DNA

ORGANISM: Human

FEATURE:

NAME/KEY: misc_feature

LOCATION: (46)..(46)

OTHER INFORMATION: n is a, c, g, or t

FEATURE:

NAME/KEY: misc_feature

LOCATION: (53)..(53)

OTHER INFORMATION: n is a, c, g, or t

FEATURE:

NAME/KEY: misc_feature

LOCATION: (143)..(143)

OTHER INFORMATION: n is a, c, g, or t

FEATURE:

NAME/KEY: misc_feature

LOCATION: (152)..(152)

OTHER INFORMATION: n is a, c, g, or t

FEATURE:

NAME/KEY: misc_feature

LOCATION: (157)..(157)

OTHER INFORMATION: n is a, c, g, or t

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; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (209)..(209)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (221)..(221)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (245)..(245)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (263)..(263)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (274)..(274)
; OTHER INFORMATION: n is a, c, g, or t
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (287)..(287)
; OTHER INFORMATION: n is a, c, g, or t
; US-10-085-783A-49278

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Query Match      16.5%; Score 207.2; DB 6; Length 300;
Best Local Similarity 87.2%; Pred. No. 1.6e-45;
Matches 266; Conservative 0; Mismatches 34; Indels 5; Gaps 4;

```

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QY 794 AGATTACCCAAAAGAGATGCTTCTACTGATGGAATTCAGTTCTGCATCATTTATGA 853
DB 1 AGATTACCCAAAAGAGATGCTTCTACTGATGGAATTCAGTTCTGCATCATTTATG 60
QY 854 AGACTACCCAAAATTAATGCTTTAATTTCTATTTCTATTTCTATTTCTATTTCT 913
DB 61 AGACTACCCAAAATTAATGCTTTAATTTCTATTTCTATTTCTATTTCTATTTCT 120
QY 914 GATGCTTCTAATTAATGATTTAATTAATTAATTAATTAATTAATTAATTAATTA 973
DB 121 GATGCTTCTAATTAATGATTTAATTAATTAATTAATTAATTAATTAATTAATTA 178
QY 974 AGCTAATATGTTTACAGACCAAGTGTGATTTACAGCTTTTAAATCTAGCATTA 1033
DB 179 AGCTAATATGTTTACAGACCAAGTGTGATTTACAGCTTTTAAATCTAGCATTA 237
QY 1034 CATTTGCTTCATCAAAAGTGTTCATATTTTATTTAGTTGTTAGAAATCTTCT 1093
DB 238 CATTTGCTTCATCAAAAGTGTTCATATTTTATTTAGTTGTTAGAAATCTTCT 295
QY 1094 CATAG 1098
DB 296 CATAG 300

```

RESULT 13

US-10-085-783A-52384

Sequence 52384, Application US/10085783A

GENERAL INFORMATION:

APPLICANT: ChondroGene Inc.

APPLICANT: Liew, C.C.

TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis

FILE REFERENCE: 4231/2002

CURRENT APPLICATION NUMBER: US/10/085,783A

CURRENT FILING DATE: 2002-02-28

PRIOR APPLICATION NUMBER: US 60/305,340

PRIOR FILING DATE: 2001-07-13

PRIOR APPLICATION NUMBER: US 60/275,017

PRIOR FILING DATE: 2001-03-12

PRIOR APPLICATION NUMBER: US 60/271,955

PRIOR FILING DATE: 2001-02-28

NUMBER OF SEQ ID NOS: 58994

SOFTWARE: PatentIn version 3.2

[illegible]

Query Match	14.5%	Score 182.4	DB 6	Length 398
Best Local Similarity	85.9%	Pred. No. 8.5e-39		
Matches 281	Conservative 0	Mismatches 33	Indels 13	Gaps 7
QY	323	GCCCTGTCGAGACGGGAGCCCTGGGGCCCAATGTTATTCGGGTACACCT	-GGATCCGAC	381
Db	66	GCCCTGTCGAGACGGGAGCCCTGGGGCCCAATGCGATTCGGGTACACCTGGGGATCCGAC		125
QY	382	GTCGGGATGCAATTAAAGAGAAAAGGGGGAATGTCGAGGAAAAGCTTTGAGGAGTCT		441
Db	126	GTCGGGATGCAATTAAAGAGAAAAGGGGGAATGTCGAGGAAAAGCTTTGAGGAGTCT		185
QY	442	GGACA-CCCAACTCAAGCAGTGTTCATGAGAGTCATGAAATTATGCGATAGATCTGGG		500
Db	186	GGACAACCCCAACTCAAGCAGAGNGTTCATGAGAGTCATGAAATTATGCGATAGATCTGGG		245
QY	501	AAATATGGGAGTGTACATTTACAAAGATCGTTCAATATGAGCTCTAAGA---	-GTTT	555
Db	246	AAATATGGGAGAGTGTACATTTACAAAGATCGGTTCCAAATATGAGCTCTAAGAAGT		305

QY 556 TGTCTAGTGGCTCAG-TCGGCTAAATGCAAAATGATGCTGTCAGC----GTGGTA 610
|||||
Db 306 GNTTCAGTGGCTCAGCTTTCGGCTAAATGCAAAATCCNTGCTGGCCAGCGTTGTGA 365
QY 611 TTTCAC-ATTCATGAGCTGATGTT 636
|||||
Db 366 TTTCACATTCATGAGCTGATGTT 392

RESULT 15

US-10-085-783A-49101
; Sequence 49101, Application US/10085783A
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: Ilew, C.C.
; TITLE OF INVENTION: Compositions and Methods Relating to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 49101
; LENGTH: 139
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-49101

Query Match 8.9%; Score 111.6; DB 6; Length 139;
Best Local Similarity 96.6%; Pred. No. 3.4e-20;

Matches 114; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1140 TTTTCTTTTCTCTAGTATAGCAATTTTAAAAAATATATAAAGCTACCAATCTTTGTA 1199
|||||
Db 8 TTTGATTTTTCCTAGTATAGCAATTTTAAAAAATATAAAGCTACCAATCTTTGTA 67
QY 1200 CAATTGTAAAGTTAAGAAATTTTCTGTAAATATAAATATTTCCACA 1257
|||||
Db 68 CAATTGTAAAGTTAAGAAATTTTCTGTAAATATAAATATTTCCACA 125

Search completed: August 20, 2003, 16:05:41
Job time : 220 secs

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DB 61 GVPGDGSPGANVIGTPIPERDQFKGKGGCLKESEESTPNTKQCSLSNMGIDL 120
QY 121 GRIACFTFTKMSNALSRLVLESGSLRLKCRNACCORWFTFTENGACSGPLPTIATITLDO 180
DB 121 GRIACFTFTKMSNALSRLVLESGSLRLKCRNACCORWFTFTENGACSGPLPTIATITLDO 180
QY 181 GSPEKNSTINIHRTSSVEGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
DB 181 GSPEKNSTINIHRTSSVEGLCEGIGAGLVDAIIVWGTCSDYPKGDASTGMSVSRITIEE 240
QY 241 LPK 243
DB 241 LPK 243

RESULT 2
AA99462
ID AA99462 standard; Protein; 243 AA.
XX
AC AA99462;
XX
DT 08-AUG-2000 (first entry)
XX
DE Human PRO1550 amino acid sequence SEQ ID NO:431.
XX
KW Human; PRO polypeptide; membrane bound protein; receptor; diagnosis;
XX transmembrane; secretion; immunoadhesion; pharmaceutical; screening.
OS Homo sapiens.
XX
XX WO200012708-A2.
XX
PD 09-MAR-2000.
XX
PE 01-SEP-1999; 99WO-US20111.
XX
PR 01-SEP-1998; 98US-0098716.
PR 01-SEP-1998; 98US-0098749.
PR 01-SEP-1998; 98US-0098750.
PR 02-SEP-1998; 98US-0098803.
PR 02-SEP-1998; 98US-0098821.
PR 02-SEP-1998; 98US-0098843.
PR 02-SEP-1998; 98US-0099536.
PR 09-SEP-1998; 98US-0099596.
PR 09-SEP-1998; 98US-0099598.
PR 09-SEP-1998; 98US-0099602.
PR 09-SEP-1998; 98US-0099642.
PR 10-SEP-1998; 98US-0099741.
PR 10-SEP-1998; 98US-0099754.
PR 10-SEP-1998; 98US-0099763.
PR 10-SEP-1998; 98US-0099792.
PR 10-SEP-1998; 98US-0099808.
PR 10-SEP-1998; 98US-0099812.
PR 10-SEP-1998; 98US-0099816.
PR 10-SEP-1998; 98US-0099816.
PR 15-SEP-1998; 98US-0100385.
PR 15-SEP-1998; 98US-0100388.
PR 15-SEP-1998; 98US-0100390.
PR 15-SEP-1998; 98US-0100390.
PR 16-SEP-1998; 98US-0100584.
PR 16-SEP-1998; 98US-0100627.
PR 16-SEP-1998; 98US-0100661.
PR 16-SEP-1998; 98US-0100662.
PR 16-SEP-1998; 98US-0100664.
PR 17-SEP-1998; 98US-0100684.
PR 17-SEP-1998; 98US-0100710.
PR 17-SEP-1998; 98US-0100711.
PR 17-SEP-1998; 98US-0100919.
PR 17-SEP-1998; 98US-0100930.
PR 18-SEP-1998; 98US-0100848.
PR 18-SEP-1998; 98US-0100849.
PR 18-SEP-1998; 98US-0101014.

PR 18-SEP-1998; 98US-0101068.
PR 18-SEP-1998; 98US-0101071.
PR 22-SEP-1998; 98US-0101279.
PR 23-SEP-1998; 98US-0101471.
PR 23-SEP-1998; 98US-0101472.
PR 23-SEP-1998; 98US-0101474.
PR 23-SEP-1998; 98US-0101475.
PR 23-SEP-1998; 98US-0101476.
PR 23-SEP-1998; 98US-0101477.
PR 23-SEP-1998; 98US-0101479.
PR 24-SEP-1998; 98US-0101738.
PR 24-SEP-1998; 98US-0101741.
PR 24-SEP-1998; 98US-0101743.
PR 24-SEP-1998; 98US-0101915.
PR 24-SEP-1998; 98US-0101916.
PR 29-SEP-1998; 98US-0102207.
PR 29-SEP-1998; 98US-0102240.
PR 29-SEP-1998; 98US-0102307.
PR 29-SEP-1998; 98US-0102330.
PR 29-SEP-1998; 98US-0102331.
PR 30-SEP-1998; 98US-0102484.
PR 30-SEP-1998; 98US-0102487.
PR 30-SEP-1998; 98US-0102570.
PR 30-SEP-1998; 98US-0102571.
PR 01-OCT-1998; 98US-0102684.
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PR 02-OCT-1998; 98US-0102965.
PR 06-OCT-1998; 98US-0103258.
PR 06-OCT-1998; 98US-0103449.
PR 07-OCT-1998; 98US-0103314.
PR 07-OCT-1998; 98US-0103315.
PR 07-OCT-1998; 98US-0103318.
PR 07-OCT-1998; 98US-0103325.
PR 07-OCT-1998; 98US-0103395.
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PR 07-OCT-1998; 98US-0103401.
PR 08-OCT-1998; 98US-0103633.
PR 08-OCT-1998; 98US-0103678.
PR 08-OCT-1998; 98US-0103679.
PR 08-OCT-1998; 98US-0103711.
PR 14-OCT-1998; 98US-0104257.
PR 20-OCT-1998; 98US-0104987.
PR 20-OCT-1998; 98US-0105000.
PR 20-OCT-1998; 98US-0105002.
PR 21-OCT-1998; 98US-0105104.
PR 22-OCT-1998; 98US-0105169.
PR 22-OCT-1998; 98US-0105266.
PR 26-OCT-1998; 98US-0105693.
PR 26-OCT-1998; 98US-0105694.
PR 27-OCT-1998; 98US-0105807.
PR 27-OCT-1998; 98US-0105881.
PR 27-OCT-1998; 98US-0105882.
PR 27-OCT-1998; 98US-0106062.
PR 28-OCT-1998; 98US-0106023.
PR 28-OCT-1998; 98US-0106029.
PR 28-OCT-1998; 98US-0106030.
PR 28-OCT-1998; 98US-0106032.
PR 28-OCT-1998; 98US-0106033.
PR 28-OCT-1998; 98US-0106178.
PR 29-OCT-1998; 98US-0106248.
PR 29-OCT-1998; 98US-0106384.
PR 29-OCT-1998; 98US-0106500.
PR 30-OCT-1998; 98US-0106464.
PR 30-OCT-1998; 98US-0106856.
PR 03-NOV-1998; 98US-0106905.
PR 03-NOV-1998; 98US-0106905.
PR 03-NOV-1998; 98US-0106919.
PR 03-NOV-1998; 98US-0106932.
PR 03-NOV-1998; 98US-0106934.
PR 10-NOV-1998; 98US-0107783.
PR 17-NOV-1998; 98US-0108775.
PR 17-NOV-1998; 98US-0108779.
PR 17-NOV-1998; 98US-0108787.
PR 17-NOV-1998; 98US-0108788.

PR 17-NOV-1998; 98US-0108801.
 PR 17-NOV-1998; 98US-0108802.
 PR 17-NOV-1998; 98US-0108806.
 PR 17-NOV-1998; 98US-0108807.
 PR 17-NOV-1998; 98US-0108867.
 PR 17-NOV-1998; 98US-0108925.
 PR 18-NOV-1998; 98US-0108848.
 PR 18-NOV-1998; 98US-0108849.
 PR 18-NOV-1998; 98US-0108850.
 PR 18-NOV-1998; 98US-0108851.
 PR 18-NOV-1998; 98US-0108852.
 PR 18-NOV-1998; 98US-0108858.
 PR 18-NOV-1998; 98US-0108904.
 XX (GETH) GENENTECH INC.
 PA Baker K, Goddard A, Gurney AL, Smith V, Watanabe CK, Wood WI;
 PI WPI: 2000-237871/20.
 DR N-PSDB; AAA37144.
 DR
 PT New mammalian DNA sequences encoding transmembrane, receptor or
 PT secreted PRO polypeptides, useful for screening of potential peptide or
 PT small molecule inhibitors of the relevant receptor/ligand interactions
 XX
 PS Claim 12; Fig 246; 773pp; English.
 XX
 CC AAA37022 to AAA37144 encode the new isolated human transmembrane,
 CC receptor or secreted PRO polypeptides given in AA99340 to AA99462. The
 CC transmembrane and receptor PRO proteins can be used for screening of
 CC potential peptide or small molecule inhibitors of the relevant
 CC receptor/ligand interactions. The polypeptides and nucleotide sequences
 CC encoding them have various industrial applications, including uses as
 CC pharmaceutical and diagnostic agents. AAA37145 to AAA37330 represent
 CC PCR primers and hybridisation probes used in the isolation of the PRO
 CC polypeptides from the present invention.
 XX
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 1301; DB 21; Length 243;
 Best Local Similarity 100.0%; Pred. No. 8.3e-122;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPGPASPQRRLGLLLLLLLLPAPSSASEIPKQKQKOLROREVVYDLYNGMCLGPA 60
 Db 1 MRQGPASPQRRLGLLLLLLLLPAPSSASEIPKQKQKOLROREVVYDLYNGMCLGPA 60
 QY 61 GVPGRDGPSPGANYPGTPIGRDGFKEGKECLRESFEESWTPNYKQCSMSLNTGIDL 120
 Db 61 GVPGRDGPSPGANYPGTPIGRDGFKEGKECLRESFEESWTPNYKQCSMSLNTGIDL 120
 QY 121 GKIAECTFTMRNSALRYLFSGLRLKCNACCORRYFTFNAGCGPLPIEAIITLDQ 180
 Db 121 GKIAECTFTMRNSALRYLFSGLRLKCNACCORRYFTFNAGCGPLPIEAIITLDQ 180
 QY 181 GSPENSTINIHRTSSVEGLCEGIGAGLVVAIVWGCSPYPRGDASTGNNVSRIITEE 240
 Db 181 GSPENSTINIHRTSSVEGLCEGIGAGLVVAIVWGCSPYPRGDASTGNNVSRIITEE 240
 QY 241 LPR 243
 Db 241 LPR 243
 RESULT 3
 ID AAU29206 standard; Protein; 243 AA.
 AC AAU29206;
 XX
 DT 18-DEC-2001 (first entry)
 XX Human PRO polypeptide sequence #183.

XX PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep;
 KW dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha;
 KW blood; chondrocyte cell; cell proliferation; cell differentiation; colon;
 KW adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder.
 OS Homo sapiens.
 XX WO200168848-A2.
 XX
 PD 20-SEP-2001.
 XX
 PE 28-FEB-2001; 2001WO-US06520.
 XX
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 03-MAR-2000; 2000US-187202P.
 PR 06-MAR-2000; 2000US-186968P.
 PR 14-MAR-2000; 2000US-189320P.
 PR 14-MAR-2000; 2000US-189328P.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 21-MAR-2000; 2000US-190828P.
 PR 21-MAR-2000; 2000US-191007P.
 PR 21-MAR-2000; 2000US-191048P.
 PR 21-MAR-2000; 2000US-193314P.
 PR 28-MAR-2000; 2000US-192655P.
 PR 29-MAR-2000; 2000US-193032P.
 PR 29-MAR-2000; 2000US-193053P.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 04-APR-2000; 2000US-194449P.
 PR 04-APR-2000; 2000US-194647P.
 PR 11-APR-2000; 2000US-195975P.
 PR 11-APR-2000; 2000US-196000P.
 PR 11-APR-2000; 2000US-196187P.
 PR 11-APR-2000; 2000US-196690P.
 PR 11-APR-2000; 2000US-196820P.
 PR 18-APR-2000; 2000US-198121P.
 PR 18-APR-2000; 2000US-198585P.
 PR 25-APR-2000; 2000US-199397P.
 PR 25-APR-2000; 2000US-199550P.
 PR 25-APR-2000; 2000US-199654P.
 PR 03-MAY-2000; 2000US-201516P.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 05-JUN-2000; 2000US-209832P.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 22-AUG-2000; 2000US-0644848.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Chen J, Desnoyers L, Goddard A, Godowski PJ, Gurney AL;
 PI Pan J, Smith V, Watanabe CK, Wood WI, Zhang Z;
 XX
 DR WPI: 2001-602746/68.
 DR N-PSDB; AAS46107.
 PT Novel nucleic acids encoding PRO polypeptides, used to diagnose the
 PT presence of tumours, such as prostate and breast tumours, in mammals and
 PT to screen for modulators of the compounds -
 XX
 PS Claim 11; Fig 366; 774pp; English.
 XX
 CC Sequences AAU29024-AAU29328 represent PRO polypeptides of the invention.
 CC The PRO polypeptides and their associated nucleic acids can be used to
 CC detect the presence of a tumour in a mammal by comparing the level of
 CC expression of a PRO polypeptide in a test sample of cells from the animal
 CC and a control sample of normal cells, whereby a higher level of

expression in the test sample indicates the presence of a tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats and rabbits but are preferably human. The polypeptides can be used to stimulate tumour necrosis factor (TNF) alpha release from human blood, when contacted with it. A specific polypeptide can be used to stimulate the proliferation or differentiation of chondrocyte cells. The PRO proteins can be used to determine the presence of tumours and also susceptibility to tumour development, particularly adrenal, lung, colon breast, prostate, rectal, cervical, or liver tumours, in mammalian subjects. The oligonucleotide probes specific for the PRO nucleic acids can be used for genetic analysis of individuals with genetic disorders.

50 Sequence 243 AA;

Query Match	100.0%;	Score 1301;	DB 22;	length 243;
Best Local Similarity	100.0%;	Pred. No. 8.3e-122;		
Matches 243; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0

[illegible]

RESULT 4
AAB87586

ID AAB87586 standard; Protein; 243 AA.

AC	AA0875586;
XX	
DT	15-MAY-2001 (first entry)
XX	
DE	Human PRO1550.
XX	
XX	
XX	Human; PRO protein; mapping.
XX	
XX	homo sapiens.
XX	
PN	WC0200116318-A2.
XX	
PD	
XX	08-MAR-2001.
XX	
XX	
PF	24-AUG-2000; 2000MO-US23328.
XX	
XX	
PR	01-SEP-1999; 99MO-US20111.
PR	15-SEP-1999; 99MO-US21090.
PR	07-DEC-1999; 99US-0169495.
PR	09-DEC-1999; 99US-0170262.
PR	11-JAN-2000; 2000US-0175481.
PR	18-FEB-2000; 2000MO-US04341.
PR	18-FEB-2000; 2000MO-US04342.
PR	22-FEB-2000; 2000MO-US04414.
PR	01-MAR-2000; 2000MO-US05601.
PR	03-MAR-2000; 2000US-0187202.
PR	25-APR-2000; 2000US-0199397.
PR	22-MAY-2000; 2000MO-US114042.
PR	05-JUN-2000; 2000US-0209832.
XX	

PA (GETH) GENENTECH INC
...

PI	Eaton DL,	Filvaroff E,	Gerritsen ME,	Goddard A,	Godowski PJ,
PI	Grimaldi CJ,	Gurney AL,	Watanabe CK,	Wood WI;	

DR WPI; 2001-183260/18.
DR N-PSDB; AAF92118.

PT Eighty four nucleic acids encoding PRO polypeptides, useful in
PT molecular biology, including use as hybridization probes, and in
PT chromosome and gene mapping. -
.....

PS Claim 12; Fig 122; 278pp; English.

The present sequence is a human PRO polypeptide (secreted and transmembrane). The PRO protein, and PRO agonists, PRO antagonists or anti-PRO antibodies are useful for preparation of a medicament useful in the treatment of a condition which is responsive to the PRO protein, agonists, antagonists or anti-PRO antibodies. The PRO protein may also be employed as molecular weight markers for protein electrophoresis. The PRO coding sequence has applications in molecular biology, including use as hybridisation probes, and in chromosome and gene mapping.

Sequence 243 AA;

Query Match	100.0%;	Score 1301;	DB 22;	Length 243;
Best Local Similarity	100.0%;	Pred. No. 8.3e-122;		
Matches 243; Conservative	0;	Mismatches	0;	Indels 0; Gaps 0;

QY	1	MRPQGAASPORLRKGLLLLLLLQLPAPSSASEIPKGRKAOLRQREVDYLNGMCLGPA	60
QY	1	MRPQGAASPORLRKGLLLLLLLQLPAPSSASEIPKGRKAOLRQREVDYLNGMCLGPA	60
Db	1	MRPQGAASPORLRKGLLLLLLLQLPAPSSASEIPKGRKAOLRQREVDYLNGMCLGPA	60
QY	61	GVYGRGSGANVYIPETPGIPGRDQFKGKGCCLRESEESWTPYKCCSSMNTGIDL	120
Db	61	GVYGRGSGANVYIPETPGIPGRDQFKGKGCCLRESEESWTPYKCCSSMNTGIDL	120
QY	121	GKIAECTFFKMRNSNLRYLFGSGLRLCKRNACCQRMTFTNGACSGPLFTEIITLQD	180
Db	121	GKIAECTFFKMRNSNLRYLFGSGLRLCKRNACCQRMTFTNGACSGPLFTEIITLQD	180
QY	181	GSEPMNSTINIHRTSSVEGLCEGIGAGLVDAIWTGCSDPKGDASTGMNSVRIITEE	240
Db	181	GSEPMNSTINIHRTSSVEGLCEGIGAGLVDAIWTGCSDPKGDASTGMNSVRIITEE	240
QY	241	LPR 243	
Db	241	LPR 243	

RESULT 5

ID AAB66190 standard; protein; 243 AA

AC	AAB66190;	
XA		
DT	02-APR-2001 (first entry)	
XX		
DE	Protein of the invention #102.	
XX		
KM	Secreted; transmembrane; gene therapy	
XX		
OS	Unidentified.	
XA		
PN	WC200078961-A1.	
XX		
PD	28-DEC-2000.	
XX		
PE	18-FEB-2000; 2000MO-US04342.	
XX		
PR	23-JUN-1999; 9905-0141037.	
PR	20-JUL-1999; 9905-0144758.	
PR	26-JUL-1999; 9905-0145698.	

XX DE Human pancreatic cancer expressed protein SEQ ID NO 4559.
 XX KW Human; pancreas; cancer; gene therapy; vaccine; immunostimulant;
 KW cytostatic; tumour.
 XX OS Homo sapiens.
 XX PN WO200260317-A2.
 XX PD 08-AUG-2002.
 XX PF 30-JAN-2002; 2002MO-US02781.
 XX PR 30-JAN-2001; 2001US-265305P.
 PR 31-JAN-2001; 2001US-265682P.
 PR 09-FEB-2001; 2001US-267568P.
 PR 21-MAR-2001; 2001US-278651P.
 PR 28-APR-2001; 2001US-287112P.
 PR 16-MAY-2001; 2001US-291631P.
 PR 12-JUL-2001; 2001US-305484P.
 PR 20-AUG-2001; 2001US-313999P.
 PR 27-NOV-2001; 2001US-333626P.
 XX PA (CORI-) CORIXA CORP.
 XX PI Benson DR, Kalos MD, Lodes MJ, Persing DH, Hepler WT, Jiang Y;
 XX DR WPI: 2002-627435/67.
 DR N-PSDB; ABV99144.
 XX PT New isolated polynucleotide and pancreatic tumor polypeptides, useful
 PT for diagnosing, preventing and/or treating cancer, particularly
 PT pancreatic cancer.
 XX PS Claim 2; SEQ ID NO 4559; 300bp + Sequence Listing; English.
 XX CC The invention relates to an isolated polynucleotide (1) comprising: (a)
 CC any of a group of over 4000 nucleotide sequences (ABV94628-ABV99145);
 CC (b) complements of (a); (c) sequences consisting of at least 20
 CC contiguous residues of (a); (d) sequences that hybridize to (a), under
 CC moderately stringent conditions; (e) sequences having at least 75% or 90%
 CC identity to (a); or (f) degenerate variants of (a). Polypeptides
 CC (ABP68596-ABP68637) encoded by (1) and oligonucleotide can be used to
 CC detect cancer in a patient and compositions comprising polypeptides,
 CC polynucleotides, antibodies, fusion proteins, T cell populations and
 CC antigen presenting cells expressing the polypeptide are useful in
 CC treating pancreatic cancer and stimulating an immune response. The
 CC polynucleotides can be used as probes or primers for nucleic acid
 CC hybridization, in the design and preparation of ribozyme molecules for
 CC inhibiting expression of the tumour polypeptides and proteins in the
 CC tumour cells, in vaccines and for gene therapy.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pcl_sequences.
 XX SQ Sequence 243 AA:
 Query Match 100.0%; Score 1301; DB 23; Length 243;
 Best Local Similarity 100.0%; Pred. No. 8.3e-122;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 181 GSEPMNSTINHTSSVEGICGAGLVDAIWTGTCSDYPRGDASTGMSVSRITIEE 240
 DB 181 GSEPMNSTINHTSSVEGICGAGLVDAIWTGTCSDYPRGDASTGMSVSRITIEE 240
 QY 241 LPR 243
 DB 241 LPR 243
 RESULT 8
 ABG95911
 ID ABG95911 standard; Protein; 243 AA.
 XX AC ABG95911;
 XX DT 10-DEC-2002 (first entry)
 XX DE Human secreted/transmembrane protein PRO1550.
 XX KW Human; secreted protein; transmembrane protein; anti-rheumatic;
 KW antiarthritic; osteopathic; sports-related joint problem;
 KW articular cartilage defect; osteoarthritis; rheumatoid arthritis.
 XX OS Homo sapiens.
 XX PN US2002119130-A1.
 XX PD 29-AUG-2002.
 XX PF 06-DEC-2001; 2001US-0006867.
 XX PR 29-OCT-1997; 97US-063435P.
 PR 22-APR-1998; 98US-082797P.
 PR 29-APR-1998; 98US-083495P.
 PR 15-MAY-1998; 98US-085579P.
 PR 10-JUN-1998; 98US-088811P.
 PR 10-JUN-1998; 98US-088824P.
 PR 11-JUN-1998; 98US-088863P.
 PR 12-JUN-1998; 98US-089105P.
 PR 16-JUN-1998; 98US-089514P.
 PR 16-SEP-1998; 98WO-US19330.
 PR 08-MAR-1999; 99WO-US05028.
 PR 14-MAY-1999; 99WO-US10733.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 15-SEP-1999; 99WO-US21090.
 PR 22-DEC-1999; 99WO-US21194.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 30-MAR-2000; 2000WO-US04349.
 PR 02-MAY-2000; 2000WO-US14042.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 23-AUG-2000; 2000WO-US23322.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32378.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUL-2001; 2001WO-US21065.
 PR 09-JUL-2001; 2001WO-US21735.
 XX PA (GETH) GENENTECH INC.
 XX PI Epton DL, Flvarioff E, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Matanabe CK, Wood WI;
 XX DR WPI: 2002-731348/79.
 DR N-PSDB; ABS74438.


```

QY      121 GKIAECTFTKMRNSALRVLFSGSLRLKCNACCQRMWTFYFNGAECSGPLPIAIIYLQ 180
DB      121 GKIAECTFTKMRNSALRVLFSGSLRLKCNACCQRMWTFYFNGAECSGPLPIAIIYLQ 180
QY      181 GSPENSTINIHRTSSVEGLCEGIGAGLVVAIWTGCSDPYPGDASTGMNSVSRITIEE 240
DB      181 GSPENSTINIHRTSSVEGLCEGIGAGLVVAIWTGCSDPYPGDASTGMNSVSRITIEE 240
QY      241 LPK 243
DB      241 LPK 243

RESULT 10
ABB95545
ID      ABB95545 standard; Protein: 243 AA.
XX
AC      ABB95545;
XX
DE      19-JUL-2002 (first entry)
XX
DE      Human angiogenesis related protein PRO1550 SEQ ID NO: 246.
XX
KW      Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
KW      atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
KW      cardiac; cytosolic; antiangiogenic; hypotensive; vulnery;
KW      antiarteriosclerotic.
XX
OS      Homo sapiens.
XX
PN      WO200208284-A2.
XX
PD      31-JAN-2002.
XX
PF      09-JUL-2001; 2001MO-US21735.
XX
XX
PR      20-JUL-2000; 2000US-219556P.
PR      25-JUL-2000; 2000US-220624P.
PR      25-JUL-2000; 2000US-220664P.
PR      28-JUL-2000; 2000MO-US20710.
PR      02-AUG-2000; 2000US-222695P.
PR      17-AUG-2000; 2000US-0643657.
PR      23-AUG-2000; 2000MO-US23522.
PR      24-AUG-2000; 2000MO-US23328.
PR      07-SEP-2000; 2000US-230978P.
PR      15-SEP-2000; 2000US-000000P.
PR      18-SEP-2000; 2000US-0664610.
PR      18-SEP-2000; 2000US-0665350.
PR      24-OCT-2000; 2000US-242922P.
PR      08-NOV-2000; 2000US-0709238.
PR      08-NOV-2000; 2000MO-US30873.
PR      10-NOV-2000; 2000MO-US30873.
PR      01-DEC-2000; 2000MO-US32578.
PR      20-DEC-2000; 2000US-0747259.
PR      20-DEC-2000; 2000MO-US34956.
PR      22-JAN-2001; 2001US-0767609.
PR      28-FEB-2001; 2001US-0796498.
PR      28-FEB-2001; 2001MO-US06520.
PR      01-MAR-2001; 2001MO-US06666.
PR      09-MAR-2001; 2001US-0802706.
PR      14-MAR-2001; 2001US-0808689.
PR      22-MAR-2001; 2001US-0816744.
PR      05-APR-2001; 2001US-0828368.
PR      10-MAY-2001; 2001US-0854280.
PR      10-MAY-2001; 2001US-0854280.
PR      25-MAY-2001; 2001US-0866028.
PR      25-MAY-2001; 2001US-0866034.
PR      25-MAY-2001; 2001MO-US17092.
PR      30-MAY-2001; 2001US-0870574.
PR      01-JUN-2001; 2001MO-US17443.
PR      01-JUN-2001; 2001MO-US17800.
PR      20-JUN-2001; 2001MO-US19692.

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PR      28-JUN-2001; 2001MO-US00000.
XX
XX      (GETH ) GENENTECH INC.
PA      (BAKE/) BAKER K P.
PA      (FERR/) FERRARA N.
PA      (GERB/) GERBER H.
PA      (GERR/) GERRITSEN M E.
PA      (GODD/) GODDARD A.
PA      (GODO/) GODOMSKI P J.
PA      (GURN/) GURNEY A L.
PA      (HILL/) HILLAN K J.
PA      (MARS/) MARSTERS S A.
PA      (PANJ/) PAN J.
PA      (PAON/) PAONI N F.
PA      (STEP/) STEPHAN J F.
PA      (WATA/) WATANABE C K.
PA      (WILL/) WILLIAMS P M.
PA      (WOOD/) WOOD W I.
XX
XX      Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;
PI      Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF;
PI      Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W.
XX
XX      WPI; 2002-171999/22.
DR      N-PSDB; ABL95683.
XX
XX      One hundred and eighty seven nucleic acids encoding PRO polypeptides,
PT      useful in diagnosis and treatment of cardiovascular (e.g. myocardial
PT      infarction), endothelial or angiogenic disorders in a mammal -
XX
XX      Claim 11; Fig 246; 567pp; English.
XX
XX      The present invention provides the protein and coding sequences of human
CC      PRO proteins. These are useful for treating or diagnosing a
CC      cardiovascular, endothelial or angiogenic disorder, including cardiac
CC      hypertrophy, trauma, cancer, age-related macular degeneration,
CC      atherosclerosis, hypertension, arterial stenosis, rheumatoid arthritis,
CC      angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
CC      angiogenesis (such as breast carcinoma and liver carcinoma) and wound
CC      healing. The present sequence is a PRO protein of the invention.
XX
SQ      Sequence 243 AA:

Query Match 100.0%; Score 1301; DB 23; Length 243;
Best Local Similarity 100.0%; Pred. No. 8, 3e-122;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 MRPGPAASFORLRLGLLLLLQLPAPSSASEIPKGRKQKQALRQREYVDLYNMCIQGPA 60
DB      1 MRPGPAASFORLRLGLLLLLQLPAPSSASEIPKGRKQKQALRQREYVDLYNMCIQGPA 60
QY      61 GVPGRDSPANVYIPGTGPIGRDGRGEGELRASFESWTPNPKQCSWSSLYNGIDL 120
DB      61 GVPGRDSPANVYIPGTGPIGRDGRGEGELRASFESWTPNPKQCSWSSLYNGIDL 120
QY      121 GKIAECTFTKMRNSALRVLFSGSLRLKCNACCQRMWTFYFNGAECSGPLPIAIIYLQ 180
DB      121 GKIAECTFTKMRNSALRVLFSGSLRLKCNACCQRMWTFYFNGAECSGPLPIAIIYLQ 180
QY      181 GSPENSTINIHRTSSVEGLCEGIGAGLVVAIWTGCSDPYPGDASTGMNSVSRITIEE 240
DB      181 GSPENSTINIHRTSSVEGLCEGIGAGLVVAIWTGCSDPYPGDASTGMNSVSRITIEE 240
QY      241 LPK 243
DB      241 LPK 243

RESULT 11
AAE20462
ID      AAE20462 standard; Protein: 243 AA.
XX
AC      AAE20462;

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XX 01-JUL-2002 (first entry)
XX
XX Human tumour-associated antigenic target-170 (TA170) protein.
DE
XX Human: tumour-associated antigenic target-170; TA170; cytosolic;
KW gene therapy; tumour; breast; lung; liver; stomach; cancer; ADPPI;
KM antibody-dependent enzyme mediated produg therapy.
XX
OS Homo sapiens.
XX
XX Key Location/Qualifiers
XX Peptide 1..30
XX Protein /label= Signal_peptide
XX /label= Mature_TA170_protein
XX Modified-site 67..72
XX /note= "N-myristoylation site"
XX Modified-site 117..122
XX /note= "N-myristoylation site"
XX Modified-site 163..168
XX /note= "N-myristoylation site"
XX Modified-site 186..189
XX /note= "Asn is N-glycosylated"
XX Modified-site 199..204
XX /note= "N-myristoylation site"
XX Modified-site 203..208
XX /note= "N-myristoylation site"
XX
XX WO200216602-A2.
XX
XX 28-FEB-2002.
XX
XX 23-AUG-2001; 2001WO-US26626.
XX
XX 24-AUG-2000; 2000WO-US23328.
XX 01-DEC-2000; 2000WO-US3678.
XX 28-FEB-2001; 2001WO-US06520.
XX 01-JUN-2001; 2001WO-US17800.
XX 20-JUN-2001; 2001WO-US19692.
XX 29-JUN-2001; 2001WO-US21066.
XX 09-JUL-2001; 2001WO-US21735.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Polakis P;
XX Williams PM, Wood WL, Wu TD, Zhang Z;
XX
XX WPI: 2002-292065/33.
XX N-PSDB: AAD32717.
XX
XX New antibodies that bind tumor-associated antigenic target (TAV)
XX polypeptides, useful for treating and diagnosing tumor (e.g. breast,
XX lung, liver or stomach tumor) in mammals, e.g. dogs, cats, cattle,
XX pigs, goats, rabbits or humans
XX
XX Claim 1; Fig 7; 124pp; English.
XX
XX The present invention relates to an isolated antibody that binds to
XX tumor-associated antigenic target (TAV) polypeptide. The antibody is
XX used for treating and diagnosing tumors (e.g. breast, lung, liver or
XX stomach tumors) in mammals, e.g. dogs, cats, cattle, horses, sheep,
XX pigs, goats, rabbits, or preferably humans. The antibody may also be
XX used in antibody-dependent enzyme mediated produg therapy (ADPPI).
XX The antibody is also useful for the therapeutic treatment or for the
XX diagnostic detection of cancer. TAV cDNA is useful in gene therapy.
XX The present sequence is human TA170 protein. TA170 cDNA is designated
XX as DNA76393-1664.
XX
XX Sequence 243 AA;
XX
XX Query Match 100.0%; Score 1301; DB 23; Length 243;
XX Best Local Similarity 100.0%; Pred. No. 8.3e-122;

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Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 MRPGPASPQRRLRLILLILLQLPAPSSASEIPKQKQALRQREVVDLYNGMCIQSPA 60
DB 1 MRPGPASPQRRLRLILLILLQLPAPSSASEIPKQKQALRQREVVDLYNGMCIQSPA 60
OY 61 GYPGDSBPGANVIGTPIGRDGFKQKQCELESESESWTPYKQCSMSLNYGIDL 120
DB 61 GYPGDSBPGANVIGTPIGRDGFKQKQCELESESESWTPYKQCSMSLNYGIDL 120
OY 121 GKIACTFFKMSNSALRYLPSGSLRLCRNACCORWYFTFGARCSGPLPLEATITVYDQ 180
DB 121 GKIACTFFKMSNSALRYLPSGSLRLCRNACCORWYFTFGARCSGPLPLEATITVYDQ 180
OY 181 GSPENNSTINIHRTSSVGLCEGIGAGLVDAIHWGTCSDPYKQDASTGMSVSRIITEE 240
DB 181 GSPENNSTINIHRTSSVGLCEGIGAGLVDAIHWGTCSDPYKQDASTGMSVSRIITEE 240
OY 241 LPK 243
DB 241 LPK 243
Result 12
ABB84939
ID ABB84939 standard; Protein; 243 AA.
AC ABB84939;
XX
XX 16-MAY-2002 (first entry)
XX
XX Human PRO1550 protein sequence SEQ ID NO:246.
XX
XX Human; angiogenesis; cardiant; cytosolic; antiangiogenic; hypotensive;
XX vulnery; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
XX gene therapy; cardiovascular disorder; endothelial disorder; cancer;
XX angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
XX age-related macular degeneration; arterial restenosis; angina;
XX rheumatoid arthritis; myocardial infarction; thrombophlebitis;
XX lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
XX wound healing; chromosome mapping; gene mapping.
XX
XX Homo sapiens.
XX
XX WO200200690-A2.
XX
XX 03-JAN-2002.
XX
XX 20-JUN-2001; 2001WO-US19692.
XX
XX 23-JUN-2000; 2000US-213637P.
XX 20-JUL-2000; 2000US-219556P.
XX 25-JUL-2000; 2000US-220624P.
XX 25-JUL-2000; 2000US-220664P.
XX 28-JUL-2000; 2000WO-US20710.
XX 02-AUG-2000; 2000US-222695P.
XX 17-AUG-2000; 2000US-0643657.
XX 23-AUG-2000; 2000WO-US23522.
XX 24-AUG-2000; 2000WO-US23328.
XX 07-SEP-2000; 2000US-230978P.
XX 18-SEP-2000; 2000US-0664610.
XX 18-SEP-2000; 2000US-0665350.
XX 24-OCT-2000; 2000US-242922P.
XX 08-NOV-2000; 2000US-0709238.
XX 08-NOV-2000; 2000WO-US30952.
XX 10-NOV-2000; 2000WO-US30873.
XX 01-DEC-2000; 2000WO-US32678.
XX 20-DEC-2000; 2000US-0747259.
XX 20-DEC-2000; 2000WO-US4956.
XX 22-JAN-2001; 2001US-0767609.
XX 28-FEB-2001; 2001US-0796498.
XX 01-MAR-2001; 2001WO-US06520.
XX

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09-MAR-2001: 2001US-0802706.
 PR 14-MAR-2001: 2001US-0808689.
 PR 22-MAR-2001: 2001US-0816744.
 PR 05-APR-2001: 2001US-0828366.
 PR 10-MAY-2001: 2001US-0854208.
 PR 10-MAY-2001: 2001US-0854280.
 PR 25-MAY-2001: 2001US-0866028.
 PR 25-MAY-2001: 2001US-0866034.
 PR 25-MAY-2001: 2001US-0866034.
 PR 30-MAY-2001: 2001US-0870574.
 PR 30-MAY-2001: 2001US-0870574.
 PR 01-JUN-2001: 2001US-0871743.
 PR 01-JUN-2001: 2001US-0871743.
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Ferrara N, Gerber H, Gerltsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Hillan KJ, Masters SA, Pan J, Paoletti NF;
 PI Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
 PI
 DR WPI; 2002-090516/12.
 DR N-PSDB; ABL88194.
 XX
 PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endothelial or angiogenic disorders in a mammal -
 PS
 PS Claim 11; Fig 246; 565bp; English.
 XX
 CC ABL88072 to ABL88258 encode the PRO proteins given in ABL88194 to
 CC ABL885003. The PRO proteins and polynucleotides have cardiant, cytostatic,
 CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides,
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal,
 CC e.g. cardiac hypertrophy, trauma, cancer, age-related macular
 CC degeneration, atherosclerosis, hypertension, arterial restenosis,
 CC rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,
 CC lymphangitis, tumour angiogenesis (such as breast carcinoma and liver
 CC carcinoma) and wound healing. The PRO polynucleotides have applications
 CC in molecular biology, including use as hybridisation probes, and in
 CC chromosome and gene mapping. ABL88259 to ABL88267 represent primers and
 CC probes used in the exemplification of the present invention.
 XX
 SQ Sequence 243 AA;
 Query Match 100.0%; Score 1301; DB 23; Length 243;
 Best Local Similarity 100.0%; Pred. No. 8.3e-122;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MRPGPASPQRRLGLLLLLQLPAPSSASEIPKQKOKAQLRQREVVDLYNMGCLQGPA 60
 DB 1 MRPGPASPQRRLGLLLLLQLPAPSSASEIPKQKOKAQLRQREVVDLYNMGCLQGPA 60
 QY 61 GVPGRGSGPQANVYIPGPGIGRGKGEKGECLRSFEESWTPNPKQCSWSSLYNGIDL 120
 DB 61 GVPGRGSGPQANVYIPGPGIGRGKGEKGECLRSFEESWTPNPKQCSWSSLYNGIDL 120
 QY 121 GRIAEFTFRMNSALRYVFSGLRLKCNACCQWYEFNACSGPPIAIIYLDQ 180
 DB 121 GRIAEFTFRMNSALRYVFSGLRLKCNACCQWYEFNACSGPPIAIIYLDQ 180
 QY 181 GSPEMNSTINHTSSVEGLCEGICAGLVDAIWMVTCSDPYPGDASTGNSVSRITIEE 240
 DB 181 GSPEMNSTINHTSSVEGLCEGICAGLVDAIWMVTCSDPYPGDASTGNSVSRITIEE 240
 QY 241 LPK 243
 DB 241 LPK 243

XX AC ABL88194;
 XX AC ABL88194;
 DT 10-JUN-2003 (first entry)
 XX DE Human PRO1550 protein.
 XX DE Human PRO1550 protein.
 KW Human; PRO; secreted; transmembrane; cytosolic; TNF-alpha; blood;
 KW tumour necrosis factor alpha release; chondrocyte cell; proliferation;
 KW differentiation; tumour; gene therapy.
 XX OS Homo sapiens.
 XX OS Homo sapiens.
 PN US2003036143-A1.
 XX PD 20-FEB-2003.
 XX PF 02-JUL-2002; 2002US-0187600.
 XX PF 02-JUL-2002; 2002US-0187600.
 XX PF 16-SEP-1998; 98WO-US19330.
 PR 07-OCT-1998; 98WO-US21141.
 PR 01-DEC-1998; 98WO-US25108.
 PR 08-MAR-1999; 99WO-US05028.
 PR 14-MAY-1999; 99WO-US10733.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 15-SEP-1999; 99WO-US21090.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28351.
 PR 30-DEC-1999; 99WO-US31274.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 11-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 29-AUG-2001; 2001WO-US27099.
 PR 18-SEP-1997; 97US-059263P.
 PR 18-SEP-1997; 97US-059266P.
 PR 17-OCT-1997; 97US-062250P.
 PR 21-OCT-1997; 97US-063486P.
 PR 24-OCT-1997; 97US-063120P.
 PR 24-OCT-1997; 97US-063121P.
 PR 28-OCT-1997; 97US-063540P.
 PR 28-OCT-1997; 97US-063541P.
 PR 28-OCT-1997; 97US-063544P.
 PR 28-OCT-1997; 97US-063564P.
 PR 29-OCT-1997; 97US-063734P.
 PR 31-OCT-1997; 97US-063870P.
 PR 13-NOV-1997; 97US-064103P.
 PR 21-NOV-1997; 97US-065120P.
 PR 24-NOV-1997; 97US-064666P.
 PR 24-NOV-1997; 97US-066772P.
 PR 11-DEC-1997; 97US-069335P.
 PR 12-DEC-1997; 97US-069425P.

RESULT 13
 AB071294
 ID AB071294 standard; Protein; 243 AA.

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PR 17-DEC-1997; 97US-069870P.
PR 18-DEC-1997; 97US-068017P.
PR 10-MAR-1998; 98US-077450P.
PR 11-MAR-1998; 98US-077632P.
PR 11-MAR-1998; 98US-077632P.
PR 20-MAR-1998; 98US-078886P.
PR 20-MAR-1998; 98US-078939P.
PR 27-MAR-1998; 98US-079664P.
PR 27-MAR-1998; 98US-079786P.
PR 31-MAR-1998; 98US-080107P.
PR 31-MAR-1998; 98US-080194P.
PR 01-APR-1998; 98US-080327P.
PR 01-APR-1998; 98US-080333P.
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PR 08-APR-1998; 98US-081195P.
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PR 21-APR-1998; 98US-082569P.
PR 21-APR-1998; 98US-082704P.
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PR 28-APR-1998; 98US-083322P.
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PR 05-MAY-1998; 98US-084366P.
PR 06-MAY-1998; 98US-084414P.
PR 07-MAY-1998; 98US-084639P.
PR 07-MAY-1998; 98US-084640P.
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PR 28-MAY-1998; 98US-087098P.
PR 28-MAY-1998; 98US-087208P.
PR 02-JUN-1998; 98US-087609P.
PR 02-JUN-1998; 98US-087759P.
PR 03-JUN-1998; 98US-087827P.
PR 04-JUN-1998; 98US-088025P.
PR 04-JUN-1998; 98US-088028P.
PR 04-JUN-1998; 98US-088029P.
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PR 05-JUN-1998; 98US-088326P.
PR 05-JUN-1998; 98US-088167P.
PR 05-JUN-1998; 98US-088202P.
PR 05-JUN-1998; 98US-088212P.
PR 05-JUN-1998; 98US-088217P.
PR 09-JUN-1998; 98US-088655P.
PR 10-JUN-1998; 98US-088722P.
PR 10-JUN-1998; 98US-088738P.
PR 10-JUN-1998; 98US-088740P.
PR 10-JUN-1998; 98US-088811P.
PR 10-JUN-1998; 98US-088824P.
PR 10-JUN-1998; 98US-088825P.
PR 10-JUN-1998; 98US-088826P.
PR 11-JUN-1998; 98US-088861P.
PR 11-JUN-1998; 98US-088863P.
PR 11-JUN-1998; 98US-088876P.
PR 12-JUN-1998; 98US-089090P.
PR 12-JUN-1998; 98US-089105P.
PR 16-JUN-1998; 98US-089512P.
PR 16-JUN-1998; 98US-089514P.
PR 17-JUN-1998; 98US-089538P.
PR 17-JUN-1998; 98US-089598P.
PR 17-JUN-1998; 98US-089653P.
PR 18-JUN-1998; 98US-089908P.
PR 19-JUN-1998; 98US-089952P.
PR 22-JUN-1998; 98US-090246P.

PR 22-JUN-1998; 98US-090252P.
PR 22-JUN-1998; 98US-090254P.
PR 24-JUN-1998; 98US-090429P.
PR 24-JUN-1998; 98US-090435P.
PR 24-JUN-1998; 98US-090444P.
PR 24-JUN-1998; 98US-090461P.
PR 24-JUN-1998; 98US-090535P.
PR 24-JUN-1998; 98US-090540P.
PR 25-JUN-1998; 98US-090676P.
PR 25-JUN-1998; 98US-090678P.
PR 25-JUN-1998; 98US-090688P.
PR 25-JUN-1998; 98US-090690P.
PR 25-JUN-1998; 98US-090694P.
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PR 25-JUN-1998; 98US-090696P.
PR 26-JUN-1998; 98US-090862P.
PR 26-JUN-1998; 98US-090863P.
PR 26-JUN-1998; 98US-091010P.
PR 01-JUL-1998; 98US-091359P.
PR 01-JUL-1998; 98US-091344P.
PR 02-JUL-1998; 98US-091478P.
PR 02-JUL-1998; 98US-091486P.
PR 02-JUL-1998; 98US-091626P.
PR 02-JUL-1998; 98US-091628P.
PR 02-JUL-1998; 98US-091632P.
PR 04-AUG-1998; 98US-094006P.
PR 04-AUG-1998; 98US-095282P.
PR 10-AUG-1998; 98US-095998P.
PR 10-AUG-1998; 98US-096012P.
PR 17-AUG-1998; 98US-096757P.
PR 17-AUG-1998; 98US-096766P.
PR 17-AUG-1998; 98US-096867P.
PR 17-AUG-1998; 98US-096891P.
PR 18-AUG-1998; 98US-096897P.
PR 18-AUG-1998; 98US-096949P.
PR 18-AUG-1998; 98US-096959P.
PR 26-AUG-1998; 98US-097022P.
PR 26-AUG-1998; 98US-097052P.
PR 26-AUG-1998; 98US-097954P.
PR 26-AUG-1998; 98US-097955P.
PR 26-AUG-1998; 98US-097971P.
PR 26-AUG-1998; 98US-097974P.
PR 26-AUG-1998; 98US-098014P.
PR 01-SEP-1998; 98US-098716P.
PR 01-SEP-1998; 98US-098723P.
PR 02-SEP-1998; 98US-098803P.
PR 02-SEP-1998; 98US-098821P.
PR 02-SEP-1998; 98US-098843P.
PR 09-SEP-1998; 98US-099602P.
PR 10-SEP-1998; 98US-099741P.
PR 10-SEP-1998; 98US-099754P.
PR 10-SEP-1998; 98US-099763P.
PR 10-SEP-1998; 98US-099812P.

Query Match 100.0%; Score 1301; DB 24; Length 243;
Best Local Similarity 100.0%; Pred. No. 8.3e-122;
Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPOGPASPORLRLKLLLLLLLPAPSSASEIPKQKQALROREVDLYNGKLOCPA 60
|||||
DB 1 MRPOGPASPORLRLKLLLLLLLPAPSSASEIPKQKQALROREVDLYNGKLOCPA 60
|||||

OY 61 GVPGRDGGPGANVIGPITGIPGRDGFKEGKECECLRESFEESWTPNYKQCSWSSINTYIDL 120
|||||
DB 61 GVPGRDGGPGANVIGPITGIPGRDGFKEGKECECLRESFEESWTPNYKQCSWSSINTYIDL 120
|||||

OY 121 GKIACTFTTKMRNSALAVLTVSSGSLRLKCRNACCORWYFTFTNGAECSSPLTEAITIYIDQ 180
|||||
DB 121 GKIACTFTTKMRNSALAVLTVSSGSLRLKCRNACCORWYFTFTNGAECSSPLTEAITIYIDQ 180
|||||

OY 181 GSPEANSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDPKPKDASTGMNSVSRITIEE 240
|||||
DB 181 GSPEANSTINIHRTSSVEGLCEGIGAGLVDAIVWGTCSDPKPKDASTGMNSVSRITIEE 240
|||||
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QY 241 LPK 243
 DB 241 LPK 243

RESULT 14
 AB071566
 ID AB071566 standard; Protein; 243 AA.
 AC AB071566;
 XX
 DF 10-JUN-2003 (first entry)
 XX
 DE Human secreted polypeptide PRO1550.
 XX
 KM Human; gene therapy; tumour; cancer.
 XX
 OS Homo sapiens.
 XX
 PN US2003013855-A1.
 PD 16-JAN-2003.
 XX
 PF 03-MAY-2002; 2002US-0063616.
 XX
 PR 30-DEC-1998; 98RR-0062142.
 PR 08-MAR-1999; 99MO-US05028.
 PR 14-MAY-1999; 99MO-US10733.
 PR 30-DEC-1999; 99MO-US31274.
 PR 18-FEB-2000; 2000MO-US04341.
 PR 01-MAR-2000; 2000MO-US05601.
 PR 02-MAR-2000; 2000MO-US05841.
 PR 21-MAR-2000; 2000MO-US07532.
 PR 22-MAY-2000; 2000MO-US14042.
 PR 02-JUN-2000; 2000MO-US15264.
 PR 24-AUG-2000; 2000MO-US23328.
 PR 10-NOV-2000; 2000MO-US30873.
 PR 01-DEC-2000; 2000MO-US32678.
 PR 20-DEC-2000; 2000MO-US34956.
 PR 28-FEB-2001; 2001MO-US06520.
 PR 01-JUN-2001; 2001MO-US17800.
 PR 14-MAY-1999; 99US-0311832.
 PR 25-AUG-1999; 99US-0380137.
 PR 25-AUG-1999; 99US-0380138.
 PR 25-AUG-1999; 99US-0380139.
 PR 25-AUG-1999; 99US-0380142.
 PR 15-SEP-1999; 99US-0397342.
 PR 18-OCT-1999; 99US-0403297.
 PR 12-NOV-1999; 99US-0423844.
 PR 22-AUG-2000; 2000US-0644848.
 PR 18-SEP-2000; 2000US-0664610.
 PR 18-SEP-2000; 2000US-0665350.
 PR 08-NOV-2000; 2000US-0709238.
 PR 20-DEC-2000; 2000US-0747259.
 PR 22-MAR-2001; 2001US-0816744.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.
 PR 30-MAY-2001; 2001US-0870574.
 PR 05-JUN-2001; 2001US-0874503.
 PR 29-JUN-2001; 2001US-0869599.
 PR 18-JUL-2001; 2001US-0908827.
 PR 06-DEC-2001; 2001US-0006867.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baton DL, Flivaroff E, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
 XX
 DR MPI; 2003-330485/31.
 DR N-PSDB; ACA58870.
 XX
 PT New isolated antibody specifically binding a PRO polypeptide, useful

PT for the preparation of a medicament for treating disorders with the
 PT aberrant expression or activity of the PRO polypeptide, such as tumor
 PT conditions and cancer
 XX
 PS Disclosure; Page 194-195; 406pp; English.

XX The invention relates to an antibody that binds to a polypeptide with a
 CC fully defined sequence given in the specification. The methods and
 CC compositions (containing antibodies that specifically bind a PRO
 CC polypeptide) of the present invention are useful for the preparation of a
 CC medicament for the treatment of disorders associated with the aberrant
 CC expression or activity of the PRO polypeptide, such as tumor conditions
 CC and cancer. They can also be used to generate transgenic or knockout
 CC animals useful in the development and screening of therapeutically useful
 CC reagents. The PRO polypeptides and encoding nucleic acids can be used as
 CC molecular weight markers for protein electrophoresis, chromosome
 CC identification and tissue typing. The PRO polypeptides are useful to
 CC induce angiogenesis e.g wound healing; in the treatment of sports-related
 CC joint problems, articular cartilage defects, osteoarthritis or rheumatoid
 CC arthritis; diabetes; hyperinsulinaemia and hypoinsulinaemia. The
 CC antibodies may be used in various diagnostic, competitive binding and/or
 CC immunoprecipitation assays. The present sequence represents the amino
 CC acid sequence of a PRO polypeptide of the invention.

XX Sequence 243 AA;
 SQ

Query Match 100.0%; Score 1301; DB 24; Length 243;
 Best Local Similarity 100.0%; Pred. No. 8 3e-122;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MRPGPASPQRRLGLLLILLQLPAPSSASEIPKQKQALQREVVLDYNGMCLGPA 60
 DB 1 MRPGPASPQRRLGLLLILLQLPAPSSASEIPKQKQALQREVVLDYNGMCLGPA 60

QY 61 GVPGRGSSPANYIPGPGIPGRDGFGEGLREFEESWPNKYKQCSWSLNGLD 120
 DB 61 GVPGRGSSPANYIPGPGIPGRDGFGEGLREFEESWPNKYKQCSWSLNGLD 120

QY 121 GKIAECTFTMRNSALRVFSGSLRKCNNACQRYFFFNAGECSGPIPIAITYLDQ 180
 DB 121 GKIAECTFTMRNSALRVFSGSLRKCNNACQRYFFFNAGECSGPIPIAITYLDQ 180

QY 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIVGTCSDPKGDASTGNSVSRITIEE 240
 DB 181 GSPENNSTINIHRTSSVEGLCEGIGAGLVDAIVGTCSDPKGDASTGNSVSRITIEE 240

QY 241 LPK 243
 DB 241 LPK 243

RESULT 15
 AB072012
 ID AB072012 standard; Protein; 243 AA.
 XX
 AC AB072012;
 XX
 DF 11-JUN-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO1550.
 XX
 KM Human; secreted and transmembrane polypeptide;
 KM chromosome mapping; gene mapping; transgenic animal; knockout animal;
 KM therapeutic agent screening; chromosome identification; tissue typing;
 KM gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN US2003018183-A1.
 XX
 PD 23-JAN-2003.
 XX
 PF 01-MAY-2002; 2002US-0063512.

06-DEC-2001; 2001US-0006867.
 (GETH) GENENTECH INC.
 PI Eaton DL, Filvaroff E, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Watanabe CK, Wood WI;
 DR WPI; 2003-330984/31.
 N-PSDB; ACA60423.

PI New secreted and transmembrane PRO polypeptides and nucleic acid
 PT molecules encoding the polypeptides, useful in gene therapy or
 PT preparing a medicament for treating a condition that is responsive to
 PT the PRO polypeptide or antibody

Dislosure; Fig 122: 409pp; English.

CC The invention describes novel isolated PRO polypeptides. The PRO
 CC polypeptides or anti-PRO antibodies are useful in preparing a medicament
 CC for treating a condition that is responsive to the PRO polypeptide or
 CC antibody. The PRO nucleotide sequences may be used as hybridisation
 CC probes in chromosome and gene mapping, or in generating antisense RNA
 CC and DNA. PRO nucleic acids are also useful in preparing PRO polypeptides,
 CC in assays to identify other proteins or molecules involved in binding
 CC reaction, to generate transgenic animals or knockout animals, which in
 CC turn are useful in the development and screening of therapeutically
 CC useful reagents, for chromosome identification, and tissue typing. The
 CC PRO polypeptides and nucleic acid molecules are also useful in gene
 CC therapy, and as molecular weight markers for protein electrophoresis
 CC purposes. The anti-PRO antibodies may be used in diagnostic assays for
 CC PRO, or for the affinity purification of PRO from recombinant cell
 CC culture or natural sources. This is the amino acid sequence of a novel
 CC human secreted and transmembrane PRO polypeptide.

Sequence 243 AA:

Query Match 100.0%; Score 1301; DB 24; Length 243;
 Best Local Similarity 100.0%; Pred. No. 8.3e-122;
 Matches 243; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MRPOGPAASPORLRLGLLLLLQLLPAPSSASRIIPKQKQAOLOREVVLDVNGMCLQGPA 60
 DB 1 MRPOGPAASPORLRLGLLLLLQLLPAPSSASRIIPKQKQAOLOREVVLDVNGMCLQGPA 60
 OY 61 GVPGRDGSFGANVLPETGPIGRDGFKEGKECLRESFESESWTPNYKQCSWSLNYGIDL 120
 DB 61 GVPGRDGSFGANVLPETGPIGRDGFKEGKECLRESFESESWTPNYKQCSWSLNYGIDL 120
 OY 121 GKIAECTFTKMRNSNALVLFSGSLRLKCRNACCORWYFTFNGACSGPLPEAIITYLDQ 180
 DB 121 GKIAECTFTKMRNSNALVLFSGSLRLKCRNACCORWYFTFNGACSGPLPEAIITYLDQ 180
 OY 181 GSPEKNSITINIHRTSSVEGLCEGIGAGLVDAIIVWGTCSDPKGDASTGMNSVSRIITEE 240
 DB 181 GSPEKNSITINIHRTSSVEGLCEGIGAGLVDAIIVWGTCSDPKGDASTGMNSVSRIITEE 240
 OY 241 LPK 243
 DB 241 LPK 243

Search completed: August 13, 2003, 13:25:07
 Job time : 86 secs